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# WALLACES' FARMER AND Iowa Homestead

*Good Farming* *Clear Thinking* *Right Living*

**February** pigs require a lot of attention—especially when temperature drops away below zero. Stanley White, Dallas county, Iowa, is shown here watching one of his sows. Heat bulb in pen provides extra warmth for baby pigs.

# Should You Sell Sows?


How Many Acres In Grass? . Page 8

Get Acquainted With Sows . Page 16

Alfalfa Comes In Capsules. . Page 30

Do You Want Better Flock? . Page 48


THAT question is in the mind of almost everyone who kept a few extra sows last fall. Unless they were bred for early pigs, you still have a chance to market them.

If we have another big corn crop this year, will a few extra pigs be the best way to market that corn? What will the pigs be worth next fall if we raise too many?

Only a lucky guess can give a definite answer to questions like that. But on page 5 of this issue, Homer Hush points out some of the factors you should consider.


**FEBRUARY 19, 1949**

**IOWA'S LEADING FARM NEWSPAPER**

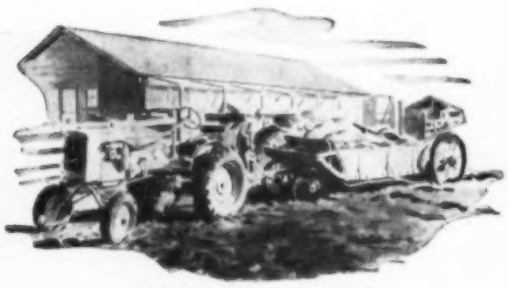
# NEW SUPER-SURE-GRIP

## saves days on tough jobs like these!

**Plowing Wet Ground**

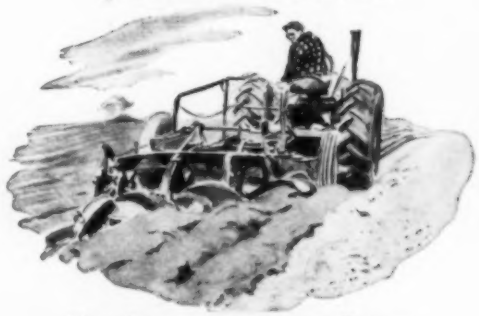
New Super-Sure-Grips kept tractors going under heavy drawbar loads on slick, slippery fields where other tires stalled! Extra traction from Super-Sure-Grip's deeper, wider o-p-e-n c-e-n-t-e-r tread speeds spring plowing!

If you're having trouble from tire slippage on jobs like these, and other tough ones like them, get Goodyear's new SUPER-SURE-GRIPS. *They cost no more than other tires, yet go where others won't!*



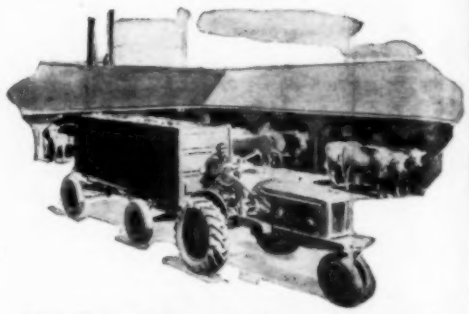
**Manure Spreading**

Tractor on other tires couldn't pull fully loaded spreader. With Super-Sure-Grips, it pulled same load fast and easy! Massive, square-shoulder lugs of Super-Sure-Grip extend traction area full width of tire for surer, stronger pull!



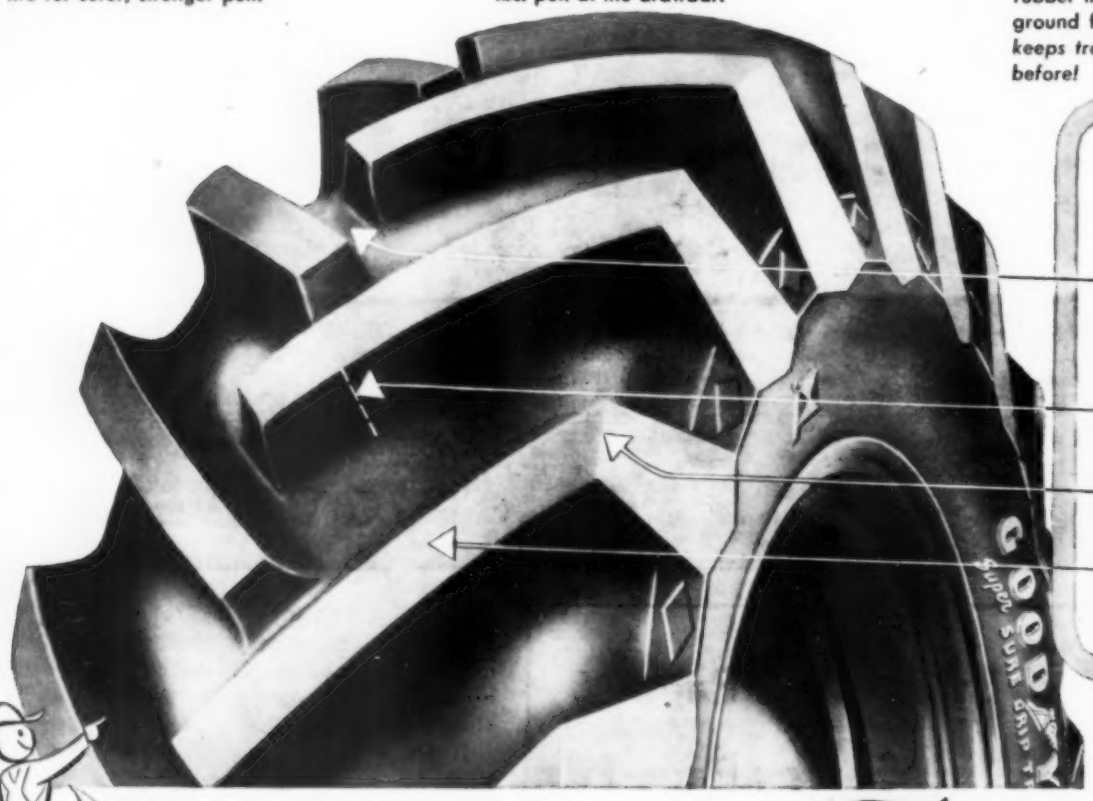
**Turning over Cover Crops**

Big tractor hitched to four 18-inch bottom plows couldn't get traction on green cover crop of sweet clover. With Super-Sure-Grips, same tractor on same job pulled sure and steady, even with 4,000 lbs. pull at the drawbar!



**Hauling through Snow-covered Feed Lots**

Tractor equipped with Super-Sure-Grips pulled loaded feed wagons through deep snow where other tires slipped to a complete bog-down! Extra rubber in bigger, longer lugs puts more rubber in ground for greater grip, insures far longer wear, *keeps tractors working where they couldn't work before!*




**ONLY GOODYEAR SUPER-SURE-GRIPS give you**

**O-P-E-N C-E-N-T-E-R TREAD** —world's most successful tread design with bite edge on every lug for full-depth soil penetration.

***PLUS***

**NEW DEEPER BITE**—higher, broader lugs put more rubber into ground for greater grip.

**NEW WIDE-TREAD TRACTION** —massive, square-shoulder lugs extend traction area full width of tire.

**NEW LONGER WEAR**—extra rubber in higher, thicker, balanced lugs insures far longer wear at no extra cost!

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# GOODYEAR

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Super-Sure-Grip—T.M. The Goodyear Tire & Rubber Company

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How can a tractor so compact, so easily handled, put forth so much power for the heavy jobs? *Two* reasons!

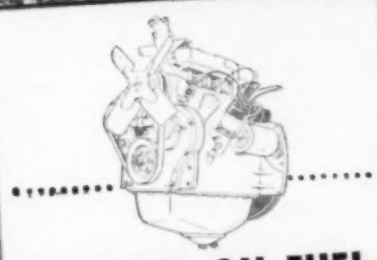
***First***—is the Ferguson System of Linkage and Hydraulic Control. It takes advantage of natural forces in linking implement to tractor, making them *one* single "self-propelled" unit, and automatically increasing traction for the harder pulling. At the same time, the work of raising, lowering, carrying and controlling depth of the implement is done for you, hydraulically.

***Second***—This power, so fully utilized, is supplied by the "farm-type" overhead-valve engine of Ferguson and Continental Motors design. Engineered and built for low operating cost, with further savings from the longer hours of running on the many different *kinds* of work the new Ferguson can do.

Together, this combination gives you a farm machine with more than enough power, yet easily controlled, flexible for the wide range of farm requirements.

Whether you judge tractor performance by how *easy* it makes your work, the *time saved,* or by how much it lowers your *cost of production,* ask your friendly Ferguson dealer for a demonstration. You'll find the New Ferguson is the modern farm machine for *you.*

*It's the FERGUSON SYSTEM that makes the difference!*



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Exceptionally high torque at low engine speeds often lets you use third gear when you would expect to need second. Rugged, heavy-duty construction with drop-forged crankshaft; long-skirted, cam-ground aluminum alloy pistons; "wet" sleeves fully water-jacketed; full pressure lubrication and precision manufacture—an engine built to "take it"!

## A few of the many FERGUSON IMPLEMENTS for *Finger Tip Farming*

**Land Leveler.** Cuts and levels an 8' width. Depth of cut, loading and spreading regulated by Finger Tip Control.

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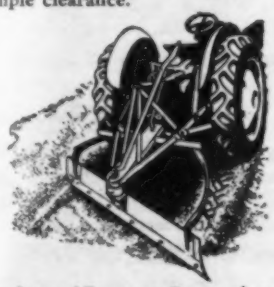
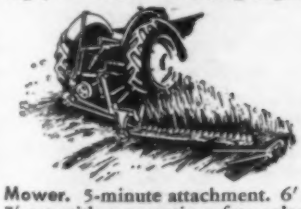


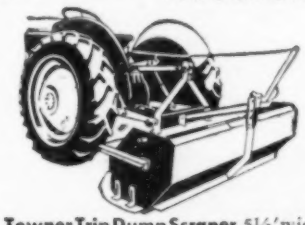
**Grader and Terracer.** For earth moving and soil conservation work: 72" blade angles to right or left: Tilts 22½ or 45 degrees. Blade 12½" high, 4" removable cutting edge.



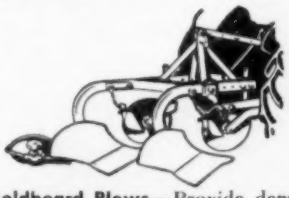
**Mower.** 5-minute attachment. 6' or 7' cut with automatic safety release "break back" and Finger Tip Control of cutter bar for backing and clearing. "Live" rubber bushings and Ferguson Linkage gives smooth, quiet operation.

**Tandem Disc Harrow** eliminates ridging, overdiscing headlands and mounding on turns. Gangs regulated by Ferguson Finger Tip Control.

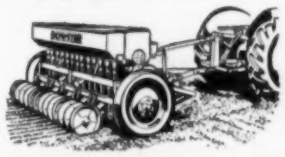
## FERGUSON IMPLEMENTS FOR FINGER TIP FARMING



**Towner Trip Dump Scraper.** 5½' wide, 24" deep, holds 22 cu. ft. Depth of bite, lifting or spreading action governed by Finger Tip Hydraulic Control.



**Moldboard Plows**—Provide depth control without levers, springs or wheels. 10", 12" or 14" bases for two-bottom plows with variety of moldboards and shares for all types of soil. Single bottom 16" available.



**Dempster Grain Drill** with 13" x 7" adjustable internal run feed, meters any size seed from clover to soybeans. Finger Tip Hydraulic Depth Control. 8-bushel seed box; feeding mechanism sprocket-driven from ground wheels. Disc openers and drag chain or press wheel coverers.

A few choice dealerships available. Write: **BERRY BROS. INC.**
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# THE NEW FERGUSON TRACTOR

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## AND FERGUSON SYSTEM IMPLEMENTS

# MAKE MORE MONEY WITH THIS FEEDING PROGRAM

**A Balanced Supplement fed with corn gives your sows a complete ration. This means larger litters and stronger pigs at a lower cost according to college tests. CORN ALONE CANNOT DO THE JOB.**

**A state college test found that sows fed "corn alone in the gestation period produced birth weights of 1.85 lbs. (34% chance of being weaned) and only 41% strong pigs." Under the same conditions "when protein supplement was added pigs weighed 2.42 lbs. at birth (67.4% chance of being weaned) and 85% of them were strong."**

**Full feed, a Balanced Ration and grain all during the nursing period. In tests made at Illinois University it was found that by properly feeding the sow during the nursing period more pigs were weaned.**

**The first 75 days is the critical period in feeding pigs. Creep-feed your young pigs. This gives them nutritional reserves and saves on feed. After weaning, full feed grain and a balanced supplement fortified with minerals, proteins and vitamins.**

**Other points to remember are: good breeding, disease control, adequate facilities and sound management. All of these are important in getting the most from your hogs. However, without a balanced ration you cannot expect to get maximum results.**

**In addition to providing a proper ration, a balanced supplement also saves corn. Here is an example. When you feed your pigs corn alone it takes about 12 bushels per 100 pounds of gain. Only 6 bushels of corn are needed when you feed it with 50 pounds of balanced supplement. By feeding a Balanced Supplement you save about 6 bushels of corn per 100 pounds of gain.**

***Your feed dealer will give you valuable information on a profitable hog feeding program. See him on your next trip to town. It will pay you real dividends.***

**FEED INSTITUTE, Inc.**
622 Des Moines Bldg. — Des Moines

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# INSIDE STUFF

**WASHINGTON, D. C.** — Corn and lard dropped again on the day I came to Washington. Naturally, I started to ask why.

▲ ▲

**ONE MAN, with a packing-house background, was cheerful about hogs. "We'll have six weeks of better prices now," he said. "But there will be a drop when the fall pigs start to come in."**

▲ ▲

**ON LARD:** "Light hogs will do well. But heavy hogs are going to be in trouble from now on."

▲ ▲

**I TRIED another expert on the lard and fat situation. "Europe wants fats to eat," I said, "and soap to wash with. How come prices are so low?"**

▲ ▲

**"NEED ISN'T** the same thing as buying power," said my friend. "And remember that when prices are going down, buyers hold off and wait."

▲ ▲

**IN DECEMBER, the folks I talked with were afraid inflation might come back in the spring. But now, some think there may be a mild inflationary revival in the fall. Some think inflation is over.**

▲ ▲

**I SAT NEXT** to Senator Murray of Montana, sponsor of the MVA bill, at a dinner. Remembering what farm friends of SCS had said to me in Iowa, I asked:

▲ ▲

**"SOME of our farmers on soil district committees and some of our SCS men remember that TVA hasn't let SCS work in its territory. They're afraid MVA might do the same thing. What about it?"**

▲ ▲

**"TELL YOUR FRIENDS** not to worry," said Senator Murray. "We're working on a new MVA bill now. It will bring in SCS, AAA and everybody else who has anything to contribute."

▲ ▲

**I WAS OVER in the Bureau of Animal Industry, in the Department of Agriculture, when the news came thru of a BAI worker killed by a mob in Mexico. Mexican farmers apparently thought vaccination for foot and mouth was going to poison the cattle.**

▲ ▲

**"WE'VE BEEN AFRAID** of trouble," said one official, "but we hoped things would quiet down when slaughter ended and vaccination began. But it's hard to explain to the folks down there just what we're doing."

▲ ▲

**CORN BELT FARMERS** rioted on foot and mouth control measures back before World War I. And we all remember the trouble in Iowa over TB tests.

**I HADN'T SEEN** President Truman close up for a good while, so I looked him over carefully when he spoke to the National Planning Association about taking steps now to head off depressions.

▲ ▲

**THE PRESIDENT looked confident and at ease. His double-breasted suit sticks out a little farther in front. And he makes a better speech than he used to make.**

▲ ▲

**"I WAS IN THAT** one," said the president, speaking of the depression of 1921. And he added, with a laugh, "That was when I went into politics. A busted merchant ran against a banker, and the busted merchant won."

▲ ▲

**SOL BARKIN, labor leader, was just back from six weeks in England. "English children are being better fed than ever," he said. "That's why the English put up with a lot of hardships in other lines."**

▲ ▲

**I TOLD BARKIN** about our proposal to take care of the citrus fruit surplus by seeing that school children had a chance to eat it up. He liked the idea. I tried it on officials of the USDA, who liked it, too.

▲ ▲

**ONE MAN—not an official—told me that we could expect four-billion-bushel corn crops now as a regular thing. Hybrid corn, plus fertilizer, would do it.**

▲ ▲

**"WE'LL NEED** production control, and food stamps, and handouts to the world," he said. "And we still may have too much food on hand."

▲ ▲

**YOU CAN FIND other folks who tell you that world population is increasing so fast that we can't possibly raise enough.**

▲ ▲

**LAST DECEMBER,** most folks here were pretty sure that hog prices would stay around support levels next winter without too much government help. But now, I hear about floods of hogs next winter and a real price drop unless something is done. There's more about this on page 6.

▲ ▲

**ONE THING is sure: We will have to store a lot of corn on the farm in 1949. More than we have ever stored before—unless we run into a drouth.**

▲ ▲

**START FIGURING** on a new crib. This is the year to buy or to build one.

DONALD R. MURPHY.


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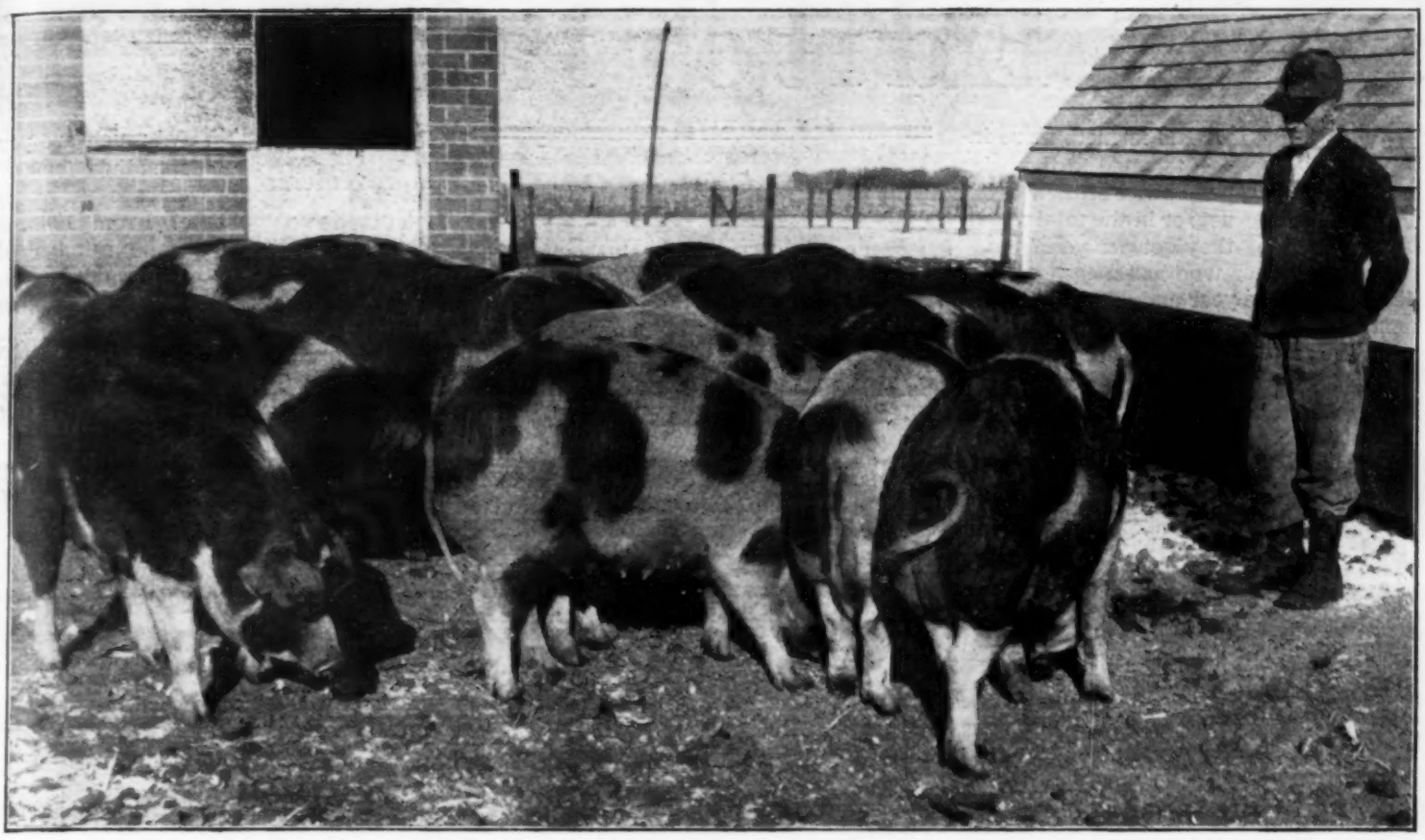


Heavy sows don't bring much money now. What will their pigs bring next winter?

# Keep Or Sell Extra Brood Sows?

By HOMER HUSH

ARE you one of those farmers who bred a half-dozen extra sows for spring pigs? You could sell them now without taking the 40-pound dock. But you wonder if you should keep them to raise pigs.

The hog raiser's fortunes next November might be affected by a lot of things. Here are some of them:

1. The increase in spring pigs due to the big corn supply.
2. Government price supports on both corn and hogs.
3. A business slump with accompanying unemployment.
4. The size of the 1949 corn crop.

**Last December, farmers indicated their intentions of increasing sows kept for spring pigs by 14 per cent. How might that affect the hog market?**

The indicated 14 per cent increase in spring pigs means a lot of hogs going to market next fall and winter. The indicated total is 56,500,000 head.

In only two previous years did farmers raise more spring pigs than indicated. That was in the war years of 1942 and 1943.

It will be remembered that we were using up the sealed corn from pre-war days in 1942 and 1943. The war made an unlimited demand for pork.

The last pre-war year which approached the number of pigs expected next spring was 1939. The number was 53,238,000 in 1939, as compared with 56,500,000 indicated for 1949.

With over two million fewer spring pigs than are predicted for 1949, farmers got around 5 cents for the crop.

That doesn't mean that this year's hog crop might sell for 5 cents. We have had the inflation since that. And big increases in pay rolls. But it means pressure on the market if farmers actually increase hogs 14 per cent.

**Will government price supports make the hog raiser safe?**

Until January 1, 1950, corn and hog prices are to be supported at 90 per cent of parity. After that, supports will be fixed under the new flexible support law.

The farmer who can market his hogs before January 1, 1950, would seem to be in fairly safe position. The supports promise 90 per cent of parity. With a good corn crop, the hog feeder might get corn below the loan price. That can be done now.

But against this favorable point is the possibility that there would be a panicky rush to market hogs before January 1. That would be certain if the support price were lowered.

The new law has a new formula for figuring parity. The change favors livestock over grain. It is possible that the hog raiser would be in better shape than now with relation to feed costs.

It is also possible, however, that under the flexible supports the support price would be less than 90 per cent. But the chances are that the government will make an extreme effort to avoid any violent change in support prices during the next corn and hog marketing season.

Anyway, price supports should keep hog and corn prices fairly well in line.

**What would happen to the hog raiser if the talked-of post-war slump comes in 1949?**

All farm prices will go down if that happens. The hog raiser may not make money. But he might make as much money selling hogs as he'd make selling corn.

There would still be price supports and the promise of the administration and congress to make good on them.

In the worst depressions, the livestock farmer got along just as well as the grain farmer. Corn was 10 cents and hogs 2½ in 1933. In 1920, a big corn crop sold for about 50 cents on the farm. Hogs brought about $7 to $9 per hundred.

**What effect might the corn crop of next summer have on the hog market?**

A big corn crop might increase the total weight of hogs on the market next winter by increasing the weight of hogs sold. But the main effect of a big corn crop on the hog market would occur in 1950.

Likewise, a small crop might slightly decrease the hog weights next winter. The main effect of the corn crop will be psychological. The expectation of more or less hogs in the future would affect the market.

If we try to balance the arguments for keeping extra sows against the arguments for selling them, it might look this way:

The pig crop this spring looks big. There are some signs of unemployment and reduced purchasing power. But the hog raiser has price supports which should keep corn and hog prices fairly well in line.

The chances are always against making money on increased hog numbers unless you have three things, however. They are (1) equipment for taking care of the sows and pigs, (2) time to take care of them, and (3) the "know-how."

# Editorials

### How Much Per Crop Or Per Bushel?

ARE farmers more interested in the price per bushel of their products or in the total return they get per year?

Take a farmer who has a cash crop of 400 bushels one year and 600 bushels the next. If he is to get the same amount per year, the price per unit must change:

400 bushels at $1.50.....$600
600 bushels at 1.00..... 600

But suppose the farmer prefers to keep the price per bushel the same each year. Then there would be a big change in total receipts per year:

400 bushels at $1.20.....$480
600 bushels at 1.20..... 720

In both cases, the farmer takes in $1,200 for the two years. But is he better off with a return of $600 each year, or with a return of $480 the first year and $720 the second year?

This is one of the points to be debated in a farm program. If the price per bushel is fixed—as in a flat 90 per cent loan—the total crop will vary with the size of the crop. Big crops will bring in a lot. Small crops will bring in much less.

If farmers prefer that the total value of the crop be about the same each year, then the price or loan value per bushel will have to rise with a small crop, and go down with a big crop.

## DON'T SELL CORN

**Don't sell corn on the market. The price at many points is from 20 to 30 cents a bushel under the loan level.**

**Seal corn if you have a good crib. If your crib won't pass inspection, get a purchase agreement.**

**In a purchase agreement, you pay the CCC one-half cent a bushel on the amount you want covered. In return, the CCC agrees to accept delivery of that much corn, at the loan rate, after September of 1949.**

**If the price goes above the loan rate, you can keep the corn. If it stays down, you can deliver.**

**You must have corn well enough sheltered so you can deliver corn that will grade at least No. 3. But you don't have to have a sealable crib.**

**Start planning now on more crib and bin space next fall. With a normal 1949 crop, corn next fall will sell on the market for 20 to 40 cents under the loan.**

**That would give you a big down payment on a new crib. In addition, the government is likely to provide special inducements for farmers who build or buy cribs and bins.**

### Get Paid For Improvements If You Move

HOW much are you spending for improvements in your home? From 1940 to 1947, the number of farm homes with bathrooms doubled in the United States. In 1947, farm families who kept and reported accounts spent 14 per cent of their incomes for household improvements.

Look around your neighborhood. How many homes have running water? How many have bathrooms?

Many a renter will say: "A fellow who owns his place can fix it up all right. But what about me?"

Some owners are fixing up farms anyway. In other cases, renters offer to put in water, provided they get paid for the improvement if they move. This agreement should be in writing, of course.

Farm income justifies better-equipped homes than many farms now have. It's a good way to use money in 1949.

### Has Johnny Learned To Read?

DOES little Johnny read as much as his Pop? Or as his grandfather? Grandfather — shut up on the farm by bad weather — read thoroly whatever books and magazines he could get hold of. There wasn't much else to do.

Pop goes to town more, sees more movies, attends more meetings, takes more magazines and newspapers. But reading matter has to compete with other things.

Little Johnny is raised on radio and movies. He goes to town oftener in a month than Grandfather did in a year. Does he have time to learn how to read?

Educators sometimes say that reading skill is declining. They worry about it. After all, little Johnny had better know how to read the instructions on his new gadgets. Or they may blow up in his face.

One way to make readers out of children is to have interesting books and magazines around. How many books does your 10-year-old own? How many does he borrow during the year from friends or libraries?

If you want to see that your children have a good education, make sure that they can borrow all the books they want from a good library. And see that each buys—to read and to keep—five or six good books a year.

### May Provide More Help For Hospitals

IF YOU are working with other folks in your county to get a good hospital, you know that the federal government now expects to supply about one-fourth of the cost.

You'll be interested, therefore, in a new bill which increases the federal share of the cost to about one-half. The bill has not passed yet, but it is being considered.

Getting a good local hospital not only helps to provide hospital care for folks in the territory. It also helps to persuade doctors to locate in your county. A doctor can be lots more use to a community if he has a good hospital to work with.

# Will Hogs Get Support?

*New Methods Of Backing Up Support Prices Are Needed*

HOG PRICES have been getting close to support levels. That makes farmers jumpy. It also scares folks in the Department of Agriculture.

Not about hog supports this spring or summer. Chances are hog prices will keep above the support level until late fall.

If the price should drop before then, the government could pull the market up by buying pork for storage or export.

But what happens next winter?

Since 90 per cent supports end on December 31, 1949, November and December will see a flood of hogs unless some new action is taken.

Wallaces' Farmer and Iowa Homestead has been recommending that the Department of Agriculture announce now support prices thru April, 1950.

That announcement would help to guide production plans this spring, and could level out the hog supply thru next winter.

BUT IT isn't enough for the government to announce that it will support hog prices at $17 or some other point.

How will those prices be supported?

This question was put to a marketing expert last week. He said:

"There are only two ways to make hog supports work, with the volume of hogs that will probably go to market next winter. One is to set up a government packing plant in every state in the corn belt. The other is to use compensatory payments.

It is plain enough that nobody is going to try to set up government packing plants by next winter—if ever.

WHAT IS left, therefore, is the compensatory payment.

As most farmers know, this means that the market sets the price. If hogs start down toward $15, when the support is $17, let them go to $15. But pay the farmer the $2 difference.

Suppose that next December, the average price paid for hogs to farmers is $15. And the support price for the month averages $17.

The farmer would bring in his sales slips and get $2 for every 100 pounds of hogs he sold. He might have sold extra-good butchers for $17; or heavy sows for $12. He still gets $2. The idea is to let the farmer profit if he sells extra-good stuff, lose if he sells the other kind. The payment is based on the market average.

MANY farmers don't like compensatory payments. They don't want a government check.

Unfortunately, hog raisers may not have much choice. Supports will work if we use compensatory payments. They won't work if we don't use them.

It will do no good to announce support prices unless we have effective means at hand to make those supports work.

### Peace Can Weaken Price Of Food

THERE'S one good thing about the decline in prices. It means that the cold war is getting colder.

If western Europe were badly frightened about a new war, the nations there would be stocking up on oils and fats, instead of holding back and bargaining. If our government were expecting war, we'd be stock-piling oils and fats instead of loosening up on export allocations.

Better chances for peace mean less worry about food stocks all along the line. That's one reason why farm product prices are weakening.

### Don't Have To "Burp" The Baby

MAYBE this item belongs in the Homemaking Department, but we think both men and women should read it. Science has advanced another notch.

At least, Dr. William F. Burdick, associate professor of pediatrics at Georgetown University, says that babies don't need to be "burped.'

He cites the horrible example of twins who didn't want to "burp," and whose mother joggled them until they threw up.

Some babies—like some older folks—are natural belchers, and some aren't.

Maybe your baby is the kind that needs to be left alone after a meal. No joggling up and down on mamma's shoulder.

Raising babies is a little like raising corn and oats. The styles change every few years.

A while back, we were told not to pay any attention to the baby when he cried. And not to hold him or rock him. Now, it seems, if he isn't cuddled, he'll grow up to think the world hates him.

Right now, the trend is away from "burping." But we won't predict what the rule will be in five years. There are new regulations for every crop of babies.

It's lucky babies are tough.


## Now You're Sure On Bonds

**LAST year, an occasional farmer would say: "What's the use of putting good money in U. S. Savings Bonds? Prices are going up. When I cash the bonds, they'll buy less than they would buy now."**

**He was taking too short a view, of course. Any bonds bought in the last five years will be cashed in—10 years after purchase—when a dollar will buy far more than a dollar could buy when the bonds were purchased.**

**Today, the facts are even clearer. Farm prices are, on the average, still above parity, but trend is downward.**

**A farmer who buys a U. S. Savings "E" Bond today will not only get 2.9 per cent interest, but also a profit measured by the increase in the buying power of the dollar.**

**Today, a $100 U. S. Savings "E" Bond, payable in full in 1959, costs $75. In 1959, that $100 will probably buy at least 50 per cent more than $75 will buy now. If you cash in earlier, in 1953 or so, the increase in buying power of your money will probably still run 20 to 30 per cent higher than today.**

**You can't find a better investment. Or a better umbrella for any rainy day that may come along.**


# Odds *and* Ends

EARLY pigs will make you money—provided you can keep them alive and growing. In a pinch, pig brooders can substitute for warm March weather.

LARD is another victim of the improving peace prospects. Increased exports could help lard and other fats. But don't feed to heavy weights until the price actually goes up.

GOVERNMENT buying is starting to support butter, cheese, eggs, evaporated milk, dry skim-milk at 90 per cent of parity. Expense may be fairly light this spring, but will run higher next winter.

DON'T get stingy with research in our agricultural colleges. Experiment stations often need more imagination as well as more money, but they can't use the first without plenty of the second.

REMEMBER that research is bound to "waste" money. Of 20 lines of investigation, 19 may fail to lead to anything useful. Yet nobody knows, to begin with, which of the 20 will pay off. To find one good method, you may have to try out all 20.

IN ARGUING over support prices, all farmers might remember that everybody wants 100 per cent—not 90 per cent—of parity on farm income. How to get it is the problem.

YOU can get 100 per cent of parity income from a big crop at 80 per cent of parity, or a smaller crop at 110 per cent. Or you can get it partly on the market and partly in direct payments or services.

DENMARK is selling butter to Russia, and getting grain in return. More east-west trade in Europe can help ease troubles on both sides of the iron curtain.

NATIONS who want to buy wheat are now offering a maximum price of $1.80 and a minimum of $1.10 over the next five years. That's less than was offered — and turned down by us — last summer.

THIS price for wheat exports is under the loan price on wheat in the United States. But, since the 90 per cent loan value is producing more wheat than the United States wants, it might pay to try 80 per cent next time.

SOME early guesses put the 1949 corn acreage at the same figure as last year. And the 1949 corn carry-over at 700 million bushels, or the largest in history. However, an increase in livestock feeding could reduce this carry-over.

THERE may be 400 million bushels of grain next fall for which there is no storage space. Farmers, co-op elevators, terminal warehouses and everybody else will have to build like mad this summer to begin to handle the supply.

## *Song of the Lazy Farmer*

IT'S FORTY years since I was wed, and still I can't get thru my head the funny workings of the mind of that strange creature — woman-kind. By now you'd think I'd know the brain of my good wife, Mirandy Jane, and yet most ev'ry day will bring more proof that I don't know a thing. Why, just the other day when she fixed up roast rooster just for me, I ate up ev'ry shred of meat and told her it was mighty sweet; I even offered the advice her dressing needs a bit more spice, and gave as my opinion that her old bird was not quite done.

You'd think that she'd appreciate such kind suggestions from her mate; instead she clouded up right quick and said that she was tired and sick of doin' all the chicken chores, from hatchery to oven doors, and then have me eat ev'ry bite and claim she didn't do it right. I figured I would make her glad, instead I got her hoppin' mad; I tried to give a compliment, she missed completely what I meant. From this day on, she says to me, you'll do the chicken work, by gee; I don't know how I missed the ball, but that ain't what I planned at all.

**Corn** is one big reason for crop rotations. Biggest corn crops follow other crops.

**Beans** often replace corn in crop rotations. Beans, like corn, are soil depleting.

**Oats** are in all rotations. Oats are the nurse crop used for grass and legumes.

# Most Feed And Cash From Corn

## *But Crop Rotations With Too Much Corn Tear the Land Down*

YOU have to answer these questions every spring: "How many acres of corn this year? How many acres should be in grass?"

When looking for the answers, certain facts present themselves. Here are some of them:

Corn produces the most feed. Even second-year corn produces more feed than other crops. Corn also produces the most cash. And grass seed is high. Farm operators and landlords often have a hard time making a profit on grass land.

These facts favor corn. But there is another side to it. Here are some other points:

Too many grain crops in the rotation reduce yields of all crops in the rotation. Corn and other row crops expose land to washing. They reduce organic matter in the soil and make drainage less effective. Legumes and grass build land up.

**How should you decide between high feed production and holding the fertility of the land? That question was put to an oldish farmer. He said the question was loaded a little, but he gave this answer:**

"How much corn and how much grass should be decided by what the land will stand. Fit the rotation to the land. What helps the land helps you in the long run."

That sounds good. But what rotation will your farm stand without losing its fertility? Some soil areas are better than others. Your farm may be different from your neighbors' in the same area.

Is there a way to get the answer? Let's try by working out rotations that are thought to be suitable on three kinds of soils—good, medium and poor soil. Then we can try to figure how to tell whether a rotation fits your farm.

**GOOD SOILS:** These would have a deep top soil and a porous sub-soil. They would be fairly level. Land that had been farmed to death would not qualify as good, however. Here are some common rotations for such land:

1. A four-year rotation of corn, corn, oats, meadow (C-C-O-M). On a farm of 160 acres, with 140 crop acres, this rotation will mean 70 acres of corn and 35 acres each of oats and legumes.

2. A five-year rotation of corn, beans, corn, oats, meadow (C-B-C-O-M). This gives 56 acres of corn, 28 of beans, 28 of oats, 28 of meadow. Beans between corn crops can be changed to oats with sweet clover for green manure (C-Osc-C-O-M).

3. A two-year rotation of corn followed by oats seeded to sweet clover to be plowed under (C-Osc). This means half the land in corn and half in oats. There is no grass in this rotation.

The first rotation is most commonly used on good level land. The second may be a little harder on the soil, but not much. The third is for grain farmers only, and seems like farming the land very hard. But some farmers and experiment stations report pretty good results from it.

**MEDIUM SOIL: This might have a deep top soil, but steep enough to wash. Or it might be level land with a thin layer of top soil and rather tight sub-soil. Or level land that has been "farmed to death."**

For these medium soils, you can add grass or reduce the corn years in the rotation. Here are some suggestions:

1. A common three-year rotation is corn, oats, clover (C-O-M). On a 160-acre farm with 140 crop acres, there will be about 47 acres each of corn, oats, clover.

2. A five-year rotation of corn, corn, oats, meadow, meadow (C-C-O-M-M). The five-year rotation on 140 crop acres would mean 56 acres of corn, 28 acres of oats and 56 acres of meadow.

3. A six-year rotation can be corn, oats with a plow-under crop, corn, oats, meadow, meadow (C-Osc-C-O-M-M). This means one-third of the land in corn, oats and clover, the same as the three-year rotation.

**POOR SOIL:** This might be rough land with a thin top soil. Or it might be formerly good land that has washed down to the clay. Sandy soil in some level areas would classify as poor land. The first suggested rotation might be this:

1. A four-year rotation of corn, oats, meadow, meadow (C-O-M-M). On 140 crop acres there would be 35 acres of corn, 35 acres of oats and 70 acres in grass.

You can make more rotations by adding more years of grass. On very rough land, grass should be left until it gets sod-bound and yields poorly. Then one year of corn will rest the land for better grass.

**Tests indicate that very little is gained, as far as corn yields are concerned, by leaving land more than two years in grass. In fact, one year in grass is almost as good as two when corn yields alone are considered. But the land may need more years in grass.**

With a rotation that fits your soil as a base, then lime, manure and fertilizer can be used to best advantage. Correct rotations don't make fertilizer unnecessary. Neither will fertilizer replace good rotations. They work together.

How can you know whether you are over-graining your farm? There are some fairly sure signs.

If corn yields drop off badly in the second year of corn, then you may be using a rotation that your land can not stand. If the yield goes down more than 20 or 25 per cent, try a rotation with more grass.

If corn land washes badly in the second year, or if oat land washes badly, your rotation may not be keeping up the organic matter in the soil. That's a sign that you need a rotation with more grass.

Yellow oats and short yields mean you are sucking all the nitrogen out of the soil before it gets back to legumes.

When these signs appear, look for a rotation with more grass. Fit your practices to the land. You can't make the land accept your desires and not pay the penalty.

# Farm Shop Shows A Profit

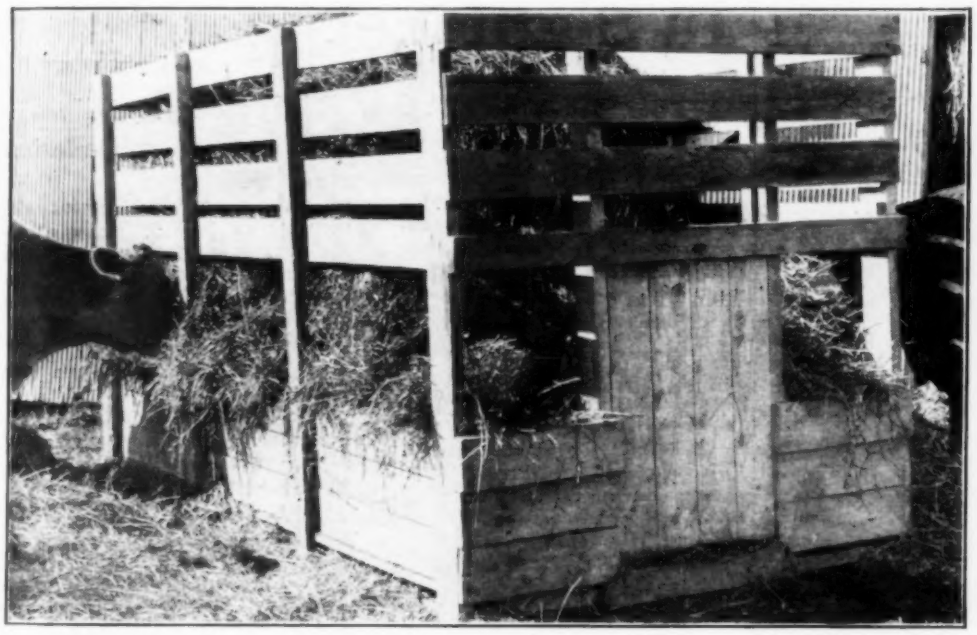
## *Useful Equipment Easily Made With Good Set of Tools*

MANY people think of a farm shop as important only for repairing machinery when it breaks down. That's not entirely true. Much handy, useful, small equipment can be turned out in a well-equipped shop.

February is also a good month to finish up winter repairs and replacements on worn machinery. Early repairs avoid costly breakdowns, prevent loss of time during busy seasons.

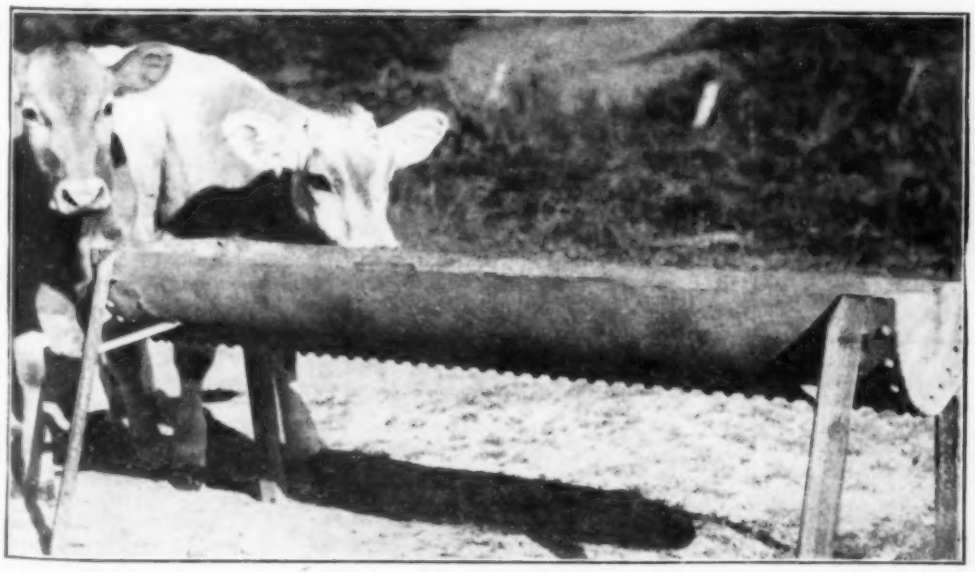
In the modern farm shop, a welder has pretty largely replaced the forge and bellows. Many of the items pictured on this page were welded, or cut with a torch.

**Milk Pail** and separator rack on the farm of Glenn Hookum, Henry county, Iowa. It was made from scraps of angle-iron, welded as shown, and fastened to two posts driven firmly into the ground in a sunny spot. It was painted with aluminum paint.



**Dual-Purpose** sled on the farm of Linus T. Beckman, Henry county, Iowa, was built to haul sows and litters from farrowing house to pasture. In between times, the sled serves as a feed bunk, and is handy because it can be pulled to the barn, filled with hay, and moved to any location desired. It is floored and is mounted on 4x4 skids.

**Rear-View** truck mirrors mounted on each side of the tractor are great "neck-savers" in cultivating, according to William Huddleston, Louisa county, Iowa.



**You Have** probably seen hog troughs made from half of an old range boiler. Ernest Hartsock, Louisa county, Iowa, added legs to get a handy calf feed bunk. Several sections, with the ends removed, can be welded together to make a longer trough or bunk.

**Portable** loading chute for stock was made from bed springs and windmill irons by J. P. Sullivan, Iowa county, Iowa.

"Speedy Sprayer is the best investment in farm machinery I ever made," says

**HOWARD TRIGG**
**Baltic, South Dakota**

**AMAZING TROUBLE-FREE ACTION GUARANTEED!**

24 FOOT BOOM **$230.00** F.O.B. FACTORY

*Speedy Sprayer's exclusive double-action hinge prevents bent or broken booms . . .*

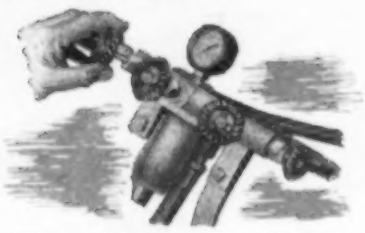
"What sold me on the new SPEEDY SPRAYER," continues Mr. Trigg, "was the double action hinge.

"When striking an object in the field, the light all-aluminum spray booms swing with obstruction, allow it to pass and then return to normal spraying position.

"No costly repairs or replacements with the new SPEEDY double action hinge."

For spraying cattle, orchards, poultry houses, etc., a hand boom unit can be attached to the new SPEEDY manifold.

**EXCLUSIVE FINGERTIP CONTROL SAVES TIME AND MONEY**



"I'm not a lazy man," explains Mr. Trigg, "but the new SPEEDY fingertip control manifold saves me valuable time. By a turn of easy-to-reach handles, I can control all sections of the spray booms without leaving the tractor seat."

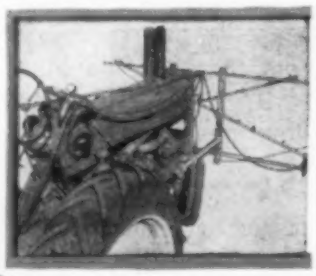
Easy to clean filter screen is built into the manifold. Pressure gauge assures accurate, *controlled spraying* at all times. Self-regulating pressure unit assures constant penetrating spray.

**OPEN . . .** The balanced hinge bearings hold booms rigid when open . . . NO wobble or end play.

**CLOSED . . .** When in normal spraying position, spray booms remain rigid.

**ATTACHMENTS FOR ANY TRACTOR**

The new SPEEDY SPRAYER fits all tractors by simply attaching two adjustable frame mounts, then merely inserting and tightening four bolts.



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THIRTY YEARS OF MANUFACTURING "KNOW HOW!"

**Framed** here in the silo door is Frank Edgar, of Dallas county, Iowa. He uses two-wheel trailer to haul silage to cattle on feed across the road. Frank thinks "pr[illegible] [illegible]der calves will go up next fall because of the heavy losses of [illegible] stock out west."

*Farm Price Picture*

# No Depression Is In Sight Yet

*Boom May Be Over, But Spending By Industry, Government Should Hold Off Sharp Deflation*

**Market prospects for major Iowa farm products are analyzed here by Francis Kutish, Iowa State College economist:**

WHEN the history of 1949 is finally written, this year probably will be recorded as marking the end of the boom—rather than the start of a depression.

Certainly, the bloom is off the post-war inflation. Prices of most things have quit going up. Prices of some products, notably farm, food and clothing prices, have gone down from their 1948 peaks.

Yet, business plans for spending for new plants and equipment continue high. And spending by federal, state and local governments is growing. Watch these two items for the earliest clue to the future. If they hold up in total, no sharp recession will develop.

Here is how the Federal Reserve Bank of Chicago sizes up the picture: "To date, readjustments in business have been severe for some, but healthy for the nation generally."

The situation for major farm products:

**HOGS:** More hogs will be slaughtered beginning in April. That is when the 8 per cent larger 1948 fall pig crop will begin to roll to market. Slaughter next fall will be boosted by the larger 1949 spring pig crop.

If farmers follow thru on their December 1 breeding plans, a normal 1949 corn crop probably would mean around a 14 or 15 to 1 hog-corn ratio next fall.

**CATTLE:** Lower grade cattle now are in the strongest position. The BAE looks for some rise in the price of plainer grades by spring. But better grades face a seasonal price drop.

Heavy cattle won't sell as well off grass next fall. Farmers will go slow on buying heavy cattle for a short feed then—after the singeing they got this winter. So look for heavy cattle to sell for about what hogs bring next fall. Better grades probably will sell at about 30 per cent above hog prices then.

**FEED GRAINS:** With a corn purchase or loan available to any farmer, it is hard to see why farmers would sell corn for much below the loan level. Yet corn is selling locally at sharp discounts.

**POULTRY:** Farm egg prices this spring will be about the same as last year. Poultrymen had 3 per cent fewer layers on hand January 1 than a year ago. But these hens were laying at a faster clip.

Farmers will raise more chicks this spring. Egg production will be near record levels next winter.

**DAIRY:** Total milk output is rising. Output will hold slightly above a year ago, until June. Until then, heavier grain feeding will offset the fewer cows milked.

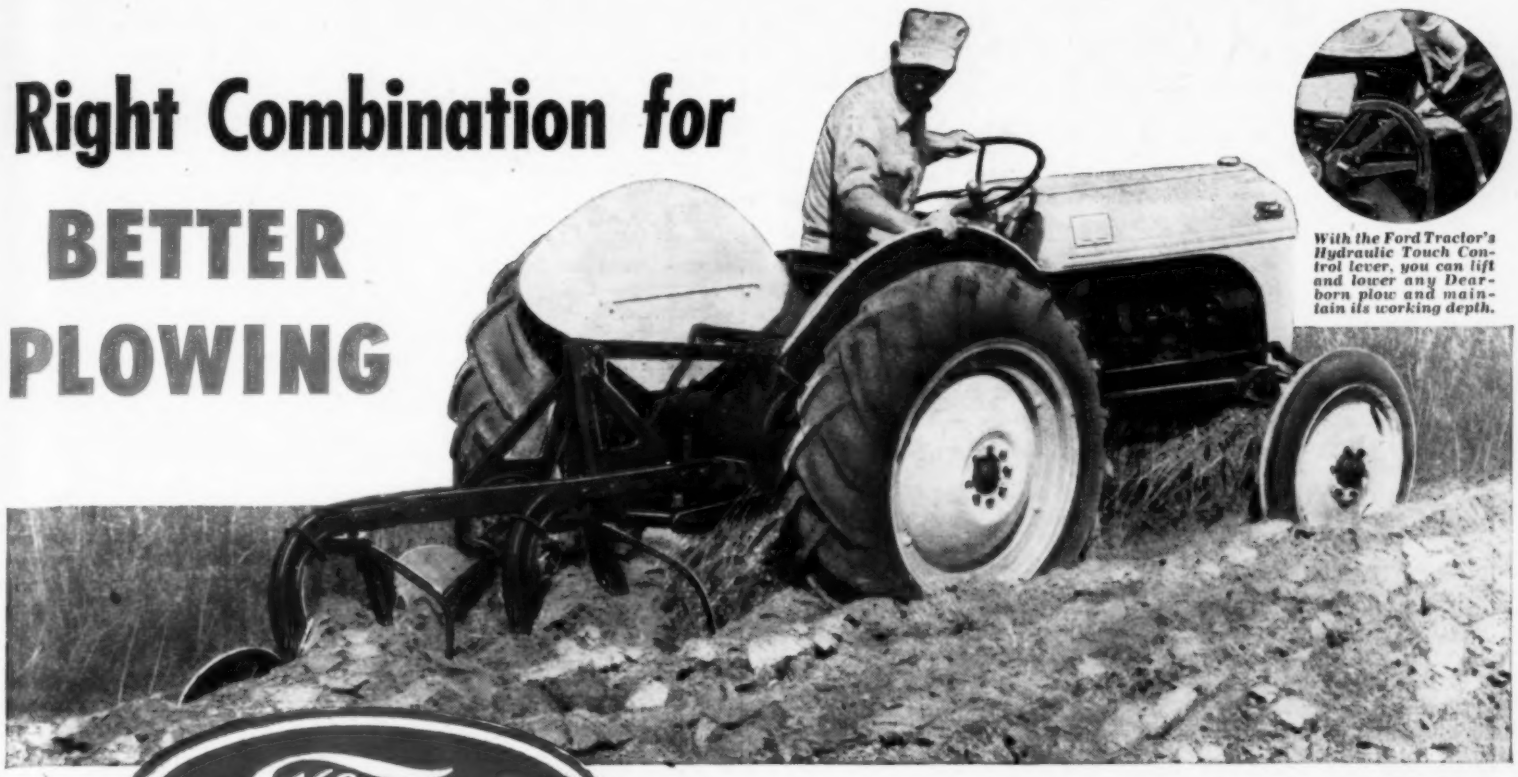
Butterfat prices stay low, compared with hogs and cattle. This will continue to push milk-cow numbers down in the midwest.

**WOOL:** Price supports on the 1949 clip will be about the same as last year. Open market wool prices have stiffened, however.

A lot of farmers will do better by selling outside the price support program this year.

**FERTILIZER** recommendations for your area will be sent to you free if you send a request to Wallaces' Farmer and Iowa Homestead. The recommendations are made by Iowa State College men, and are based on their experiments. Give the name of the county in which your farm is located when making the request.

# Right Combination for BETTER PLOWING





*With the Ford Tractor's Hydraulic Touch Control lever, you can lift and lower any Dearborn plow and maintain its working depth.*

Ford TRACTOR + the DEARBORN PLOW that fits your farming conditions

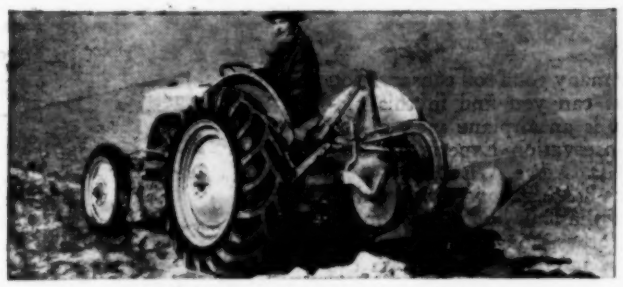
**The Ford Tractor and a properly selected Dearborn Plow make the right combination for better, easier plowing. It is an economical outfit to buy, operate and service. Each Dearborn Plow is quickly and easily attached. It has no levers nor clutches, not even wheels or axles, and no safety hitch is required.**

**By a simple movement of the Hydraulic Touch Control lever on the Ford Tractor you can lift, lower and control the depth of any Dearborn Plow. Through Hydraulic Touch Control and Implement Position Control you have a means of keeping the implement at uniform working depth: 1. When land is rough or "corrugated," but of uniform texture; 2. When land is smooth but of various soil textures; 3. When land is both rough and has changing textures. Saves time and work and makes a better job.**

**Whether you select a Dearborn moldboard plow, disc plow, two-way plow, or middlebuster, you get all the advantages of advanced design and easier operation that give you better plowing results. Ask your Ford Tractor dealer to demonstrate the Ford Tractor and one or more types of Dearborn plows on your farm.**

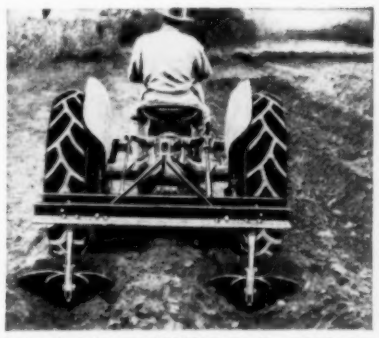
**DEARBORN MOTORS CORPORATION DETROIT 3, MICHIGAN**

Dearborn FARM EQUIPMENT



**Simple design, sturdy construction and scientifically engineered bottoms, coulters and jointers make the Dearborn moldboard plow outstanding. Available in 2-12" or 2-14" size and with many types of bottoms.**

**With two big, heavy duty discs of high carbon steel, the Dearborn disc plow does a great job in hard, stony, abrasive, sticky, waxy or root-filled soil . . . overcomes many problems of penetration, scouring and wear.**



**The Dearborn middlebuster plows and prepares land for seeding listed or bedded crops. Valuable, too, in soil conservation farming. Planter attachment, sold separately, permits seed bed preparation and planting in one operation.**

***LOOK FOR THIS SIGN.*** **This sign marks your Ford Tractor and Dearborn Farm Equipment dealer. Remember him for new machinery, expert service and genuine parts . . . Get acquainted with him . . . he's a good man to know better.**

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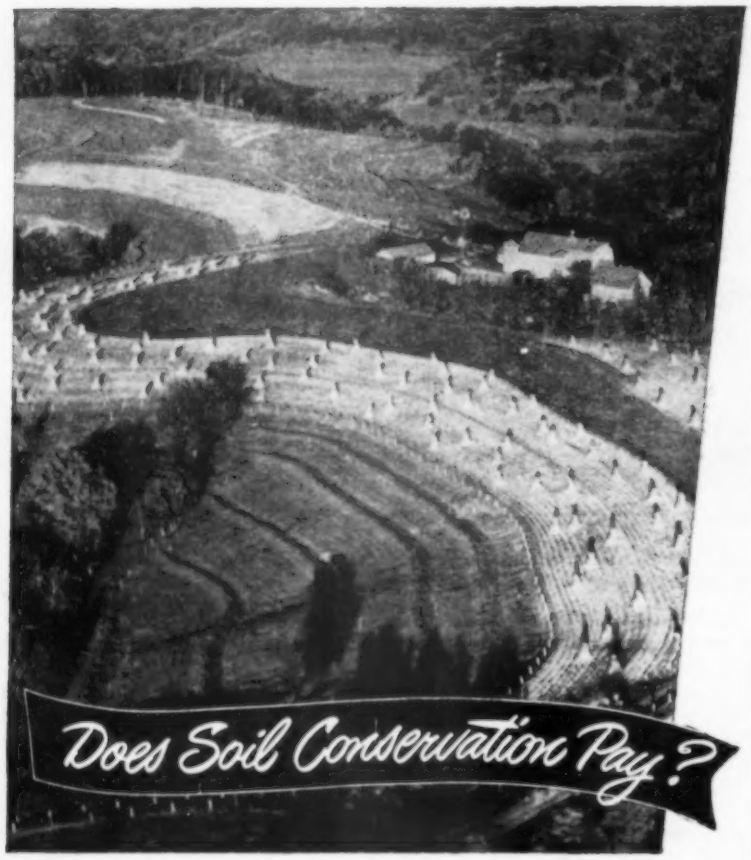
*Ford Farming* MEANS LESS WORK . . . MORE INCOME PER ACRE




**This proving ground shows that the answer is yes!**

● How many good soil conservation practices can you find in this picture? It is an airplane view of the Soil Conservation Experiment Station at La Crosse, Wisconsin.

Notice how the conservation farm plan fits the land like a tailor made suit of clothes. Long winding rows on the contour cling to curves on the slopes. Bands of close-growing grasses between the corn and grain crops slow the water run-off and hold the soil. In the pastured area, terraces break the slope into a series of short slopes to retard water and hold soil.

Note the contour fence below the corn strip. Pasture and woodland occupy land that is too steep for cultivation. Trees around the buildings serve as a windbreak. Small uncultivable areas are planted to wildlife cover.

In planning your soil conservation program, one of the first steps is to relocate your fences. Replace old worn out fence with new, long-lasting American Fence. There's none better for keeping cattle and livestock where they belong. Place your order now for fence and other wire products. Your U·S·S American Dealer may be able to supply you from stock.

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# Workday Pointers

**OAT SAMPLES** for testing the germination should be taken from all parts of the bin.

▲ ▲ ▲

**A VACCINE** is being used to provide immunity against overeating disease in lambs. Tests at Iowa State College are said to be favorable.

▲ ▲ ▲

**TREATING SEED OATS** need not be put off until seeding time. It will be effective if done now, says C. S. Reddy, plant pathologist at Iowa State College.

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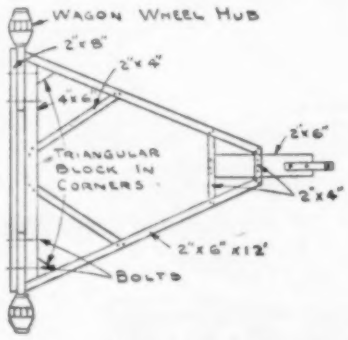
**BROODER HOUSES** or other small buildings can be moved easily with the device shown here. It is made from old wagon parts.




The wagon hubs with the spokes sawed off reduce the friction on the ground. The mover could be made as wide as desired. Heavy loads of any kind are easily loaded or unloaded. A light tractor will move a very heavy load.

▲ ▲ ▲

**LIVESTOCK** confined to yards where they can't get out of the mud are likely to develop diseases of the hoof. All animals should have access to a dry spot somewhere.

▲ ▲ ▲

**BIG CORN YIELDS** do not mean that we will wear the land out faster. It is better for land to produce 80 bushels of corn in one year than to produce 40 bushels per acre and have to grow corn two years to get the 80 bushels.

▲ ▲ ▲

**ROTATING TIRES** on cars and trucks equalizes the wear and increases the life of the tires. Here is a recommended method: Shift spare tire to right rear; right rear to left front; left front to left rear; left rear to right front, and right front to spare.

▲ ▲ ▲

**IF YOU BRED** more sows than you want to keep, here are some points for selecting sows to go to market: Sell sows that are rough looking around the head, sows with cross dispositions, overly fat or chuffy sows, and sows that are thin in the flanks and show no signs of udder development.

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**RUSTY MILK CANS** add to sediment content of milk. You can't get rid of rusty spots by scrubbing the can, says A. W. Rudnick, of Iowa State College. But old cans can be retinned at about half the cost of new cans. Dairymen who want retinning jobs must get together in a community and send cans in one shipment, as retinning is not usually available to individual producers.

**HOG FLU** sometimes strikes late in the winter. After an attack, watch the brood sows. Some may lose their pigs.

▲ ▲ ▲

**REPAIRING** of farm machinery should include replacing bolts where the nuts have rusted tight and can't be removed or tightened.

▲ ▲ ▲

**CHILLED UDDERS** on high-producing cows are an invitation for trouble. Don't make it necessary for the cows to lie down on frozen ground.

▲ ▲ ▲

**ONE JOB AT A TIME** is the rule if you are going to treat seed with a disinfectant and also inoculate the seed. Treat the seed with the disinfectant first. Then inoculate just before planting.

▲ ▲ ▲

**FUSES** in an electric line do not protect electric motors from an overload. The fuse protects the line. Motors that are given a load greater than they were made to pull will get hot. Then the wiring may be damaged or burned out.

▲ ▲ ▲

**CALFHOOD VACCINATION** for Bang's disease raises the calf's resistance to the disease. It does not produce immunity, according to veterinary authorities. Therefore, vaccinated calves should not be allowed to run with a herd that has a hot infection.

▲ ▲ ▲

**IF YOUR HOGS** weigh 225 pounds, and you put 50 pounds more weight on them with $1.25 corn, here are the break-even prices, according to the USDA: With hogs at $18.75 now, you would have to get $18.22 when they weighed 275 pounds. If you can get $20 at 225-pound weights, you would have to get $19.28 at 275 pounds to break even.

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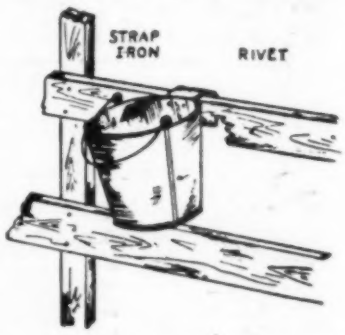
**CALF BUCKETS** fixed as shown in the illustration will save your time and give the calf all the time it wants to eat or drink. The heavy




strap-iron can be riveted or welded to the bucket. One point is important: The hook should be fixed so the bucket can be lifted off for cleaning every day.

▲ ▲ ▲

**HIGHEST-PRICED** clover or alfalfa seed is the kind that won't live thru the winter. Alfalfa varieties, such as Arizona common and California common, will winterkill in Iowa, says C. P. Wilsie, Iowa State College agronomist. He recommends Ladak, Ranger, Cossack, Grimm and northern common varieties. Kansas common and Oklahoma common can be grown in central and southern Iowa.

Purina's Research Tests Show:

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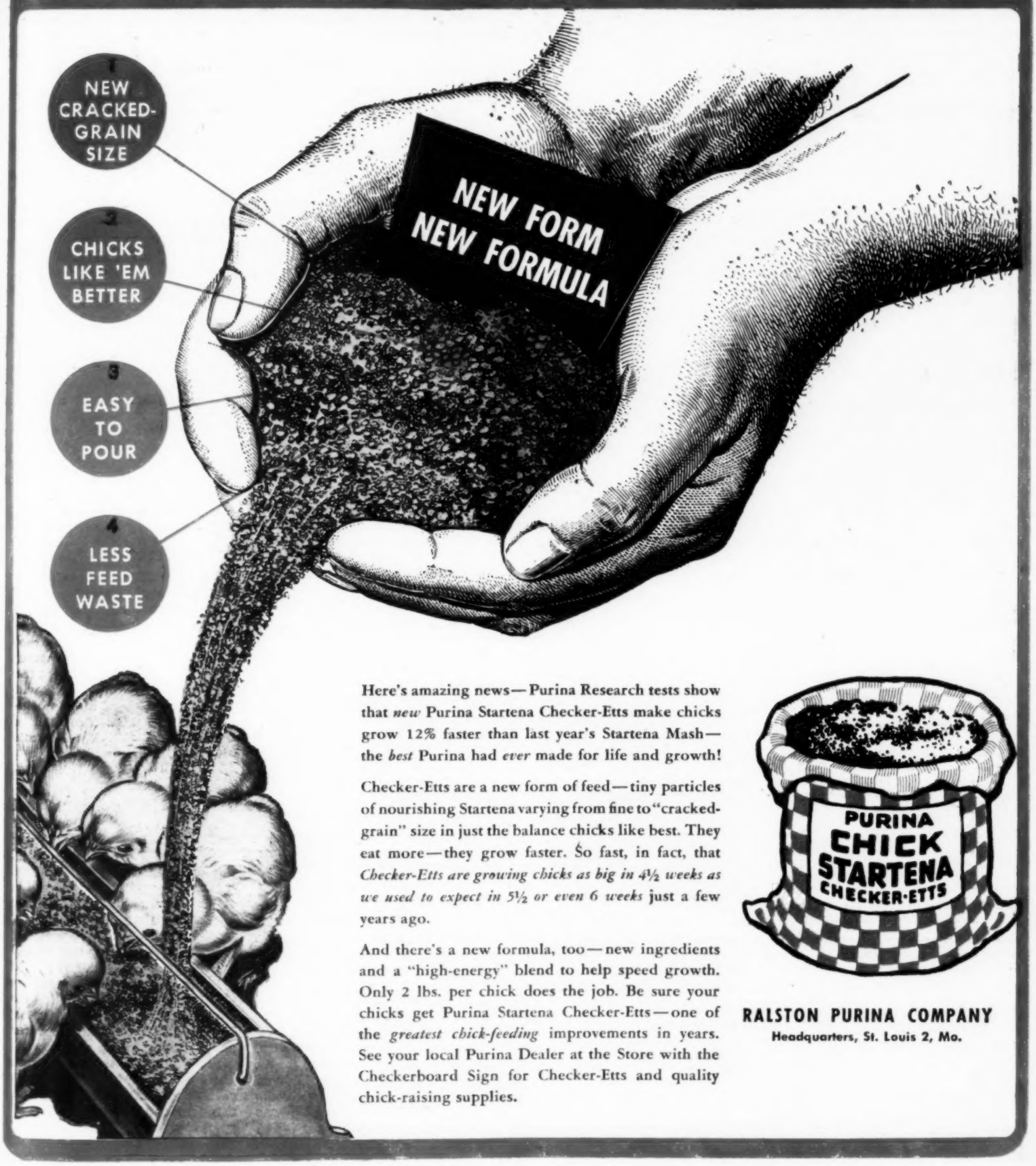


Here's amazing news—Purina Research tests show that *new* Purina Startena Checker-Etts make chicks grow 12% faster than last year's Startena Mash—the *best* Purina had *ever* made for life and growth!

Checker-Etts are a new form of feed—tiny particles of nourishing Startena varying from fine to "cracked-grain" size in just the balance chicks like best. They eat more—they grow faster. So fast, in fact, that *Checker-Etts are growing chicks as big in 4½ weeks as we used to expect in 5½ or even 6 weeks* just a few years ago.

And there's a new formula, too—new ingredients and a "high-energy" blend to help speed growth. Only 2 lbs. per chick does the job. Be sure your chicks get Purina Startena Checker-Etts—one of the *greatest chick-feeding* improvements in years. See your local Purina Dealer at the Store with the Checkerboard Sign for Checker-Etts and quality chick-raising supplies.




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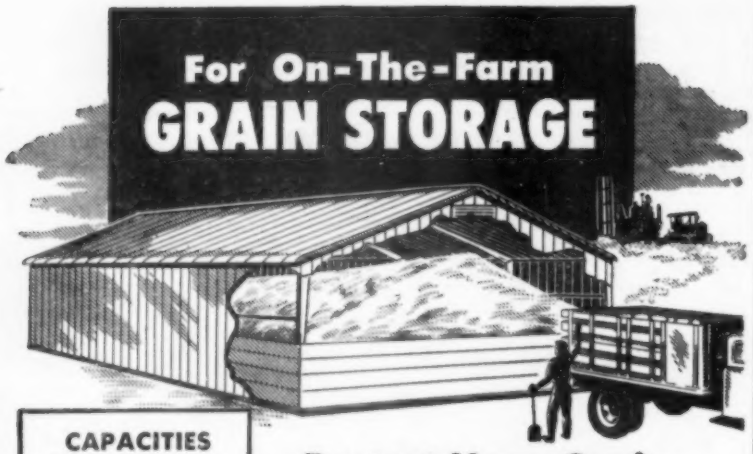


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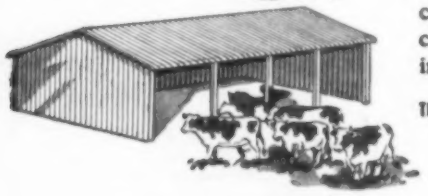

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*In The Legislature*

# County Assessor Law Under Attack

***Legislature Has Killed Bill To Repeal The Iowa Oleo Tax, But Major Bills Delayed***

THE county assessor system is the subject of several proposals in the Iowa legislature.

House Democrats have a bill to repeal the county assessor law and return to the township assessor system.

Republicans in both houses have introduced bills to transfer appointment of deputy county assessors from the county auditor to the county board of supervisors.

The county auditor carries the title of county assessor under the law. But the deputy county assessor does the work.

**A bill with half Republican and half Democratic sponsorship in the senate proposes election of the county assessor by the people. Assessors would be nominated at the primaries and elected at the general election as other county officers are elected.**

Of interest to farmers is the usual bill to repeal the requirement for a notice to end farm leases. The present law requires that landlords or tenants must notify the other party by November 1 if farm leases are to be ended on the next March 1.

The senate has passed a bill making 60 pounds the standard weight of a bushel of soybeans.

County aid to Farm Bureaus is the subject of two bills now before the legislature. Harry E. Weichman, of Buena Vista county, proposes that county aid be increased to $5,000 in all counties, plus $1,000 in counties where a 4-H youth assistant is employed.

Representative D. A. Donahue, of Cedar county, has introduced a bill to repeal the provision for county aid to agricultural associations. It is this law under which the Farm Bureau qualifies for county aid.

The oleomargarine inspection fee of 5 cents per pound will continue in Iowa. A bill by Kingsley M. Clarke, of Dallas county, to repeal the inspection fee was killed in the house.

**How to pay the soldiers' bonus has to be decided before major appropriations can be made. There are two main lines of division in the legislature about it, both having to do with the use of surplus funds.**

Governor Beardsley's suggestion to set aside $40,000,000 of the surplus as an emergency fund in the state general fund, and have the state use $36,125,000 more of the surplus to retire half of the first issue of $72,250,000 of soldiers' bonus bonds, has passed the house.

Meanwhile, S. F. 1, to make an appropriation of $85,000,000 from the surplus and pay the bonus without issuing any bonds, was approved by the senate ways and means committee. It went right on to the appropriations committee.

The Beardsley plan would cancel $36,125,000 of bonds without payment of any interest. It would require a property tax levy for retirement of principal and payment of interest during 20 years. But the tax levy would be less than half of the 1.96-mill levy necessary to redeem all the bonds.

Governor Beardsley's $91,000,000 annual budget provides for $22,500,000 per year for state aid to schools, $2,500,000 to complete the state office building and $2,500,000 for conservation work.

**Then there will be the expenses of running the state government, increased old-age assistance payments, homestead tax credits, aid to dependent children and other activities. But there would still be an extra $33,000,000, the governor estimates.**

The $33,000,000 a year extra, he suggested, might be a source of road funds in addition to the proposals of the road study committee to get $14,211,000 a year additional for all road systems.

The house gave its road committee enough additional time to study the interim road study committee's proposals to carry over action on them until after the spring recess.

The legislators always go home for about a week around the first of March. Most important matters will be delayed until the second half of the session.

## Help Pick Time To Spray Borers

**To the Editor: A salesman offers me a contract for spraying my 1949 corn for borers. He wants about half the money down. Then the contract says the spraying company has the sole right to select the time for spraying. But it will be between May 1 and September 1. Should I sign such a contract? — A. B., Kossuth County, Iowa.**

To answer the question, maybe we had better talk about corn borers. When the little borers hatch on the corn leaves, they feed on the leaves for a few hours or a few days. Then they go into the corn stalks.

It is only while the borers are on the leaves that DDT kills any borers. So there is only a short period between May 1 and September 1 that spraying will do enough good to pay for the cost.

It should also be remembered that only part of your fields may need spraying for borers. Or maybe it will be a bad year for borers, and spraying won't pay.

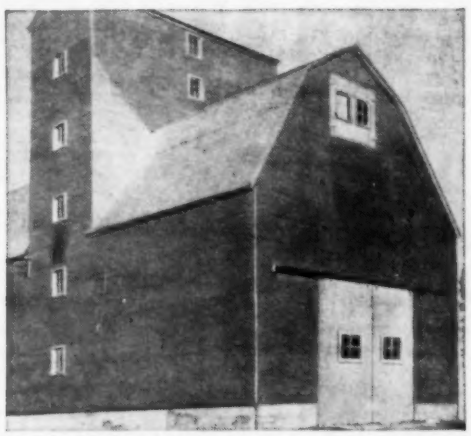
We would say this: Don't make big down payments for spraying corn borers unless you have something to say about the time for spraying. And if big down payments are called for, insist that the money—except possibly for a small amount needed to reserve spray materials—be kept in escrow until the contract is fulfilled.

STANDARD

# FARM NEWS-GRAPHIC

**A picture review of successful farming brought to you by the Standard Oil Company.**

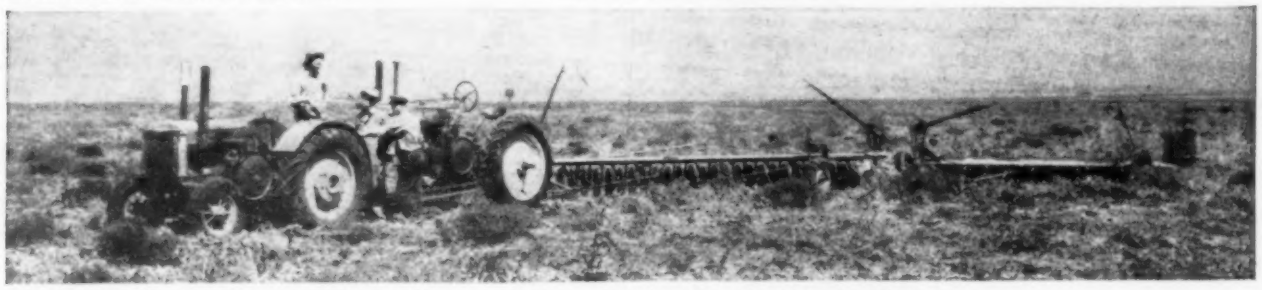
**2,000-Bushel Tower of Corn**—that's the corn drier built by Orville Beeson of Summitville, Indiana. It uses 10 gallons of Standard Heater Oil per hour, 20,000 cubic feet of air per minute. It's just one example of Mr. Beeson's efficient farming. Another: a mower he built and installed on the front of his tractor, for mowing fence rows.



**Nobody Handles Grain** in this crib built by Mr. Beeson. Machinery does shelling and grinding, also lifts grain overhead for storage. Crib capacity: 5,000 bu. ear corn plus 5,000 bu. small grain.

**Real Corn Kings** are A. H. Berg and son John, of Wyndmere, N. Dakota. A. H. Berg's De Kalb Hybrids won professional grand championship at 1948 State Corn Show. He says Standard Red Crown Gasoline is a winner too, and has given trouble-free service in his tractor, truck and car.

**Discussing Tractor Operation** are Herbert Lenhard of Darwin, Minn., and Standard Oil Agent Don Putzier (right). Mr. Lenhard, a customer of Don's for 17 years, believes in cross-breeding hogs, says, "Cross-breeding gets me big, uniform, fast-growing litters . . . fine hogs for market." Mr. Lenhard owns and operates two completely mechanized farms, uses Red Crown Gasoline and Permalube Motor Oil.



**One Man Runs Two Tractors.** Jack Holdren of Syracuse, Kansas, removes front wheels of one tractor before hitching it behind other tractor. Front-wheel hubs of trailing tractor are bolted onto channel iron connecting the tractors' drawbars. Control rods of rear tractor extend to radiator so driver of front tractor can reach them. Two men take turns to keep rig going day and night, can pull two one-way disc-plows cutting 27 feet to disc a ¼-section each 15 hours. Jack uses Standard Power Fuel and Red Crown Gasoline to power his farm equipment. He says these fuels are economical, uniform, and packed with plenty of power.

**Win $5.00.** Send your farm pictures, with descriptions, to Standard Oil Farm Photos, 910 So. Michigan Ave., Chicago, Illinois. For each picture that we use in the News-Graphic we'll pay you $5.00, and we'll return the others. Thanks a lot!

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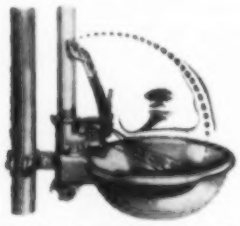

STARLINE Water Bowl — Slanting valve paddle easiest for the cow to work. Paddle locks up . . . makes bowl easiest to clean. Cow drinks day or night — gives 10% to 20% more milk.

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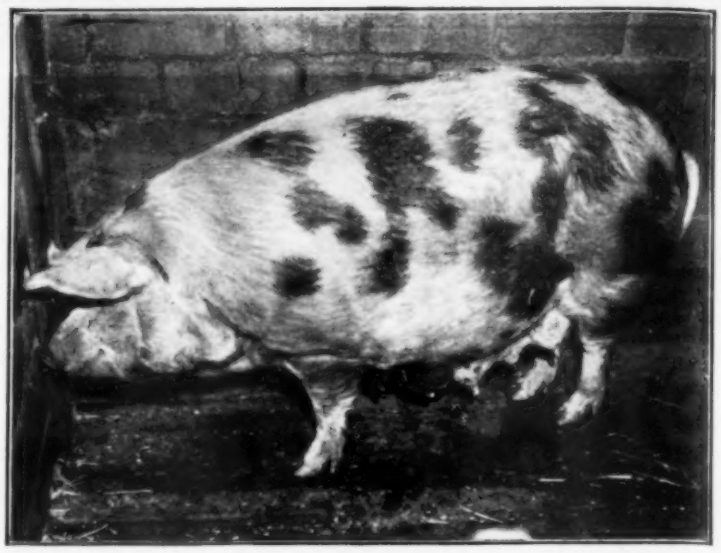

**This Sow** has just been moved into a scrubbed and disinfected farrowing pen. And she has been washed off. As a result, her pigs won't have to start life with a mouthful of worm-eggs.

# Sanitation Returns Big Dividends

*Keep Spring Pigs Free From Disease And Parasites If You Want Profitable Hogs*

MOST hog raisers still have time to get well acquainted with their brood sows. Take time to scratch them behind the ears and get them used to you. It may pay big dividends when the pigs come.

Giving the sow constant care and attention at farrowing time will save extra pigs. Even with brooders, heat bulbs and guard rails, a sow can step on her pigs. If your being around at the time disturbs her, she'll kill more pigs than ever.

Try to get the sow into her house or pen a while before she is due to farrow. If you use a portable house, you might want to raise the front of the house. Sows like to lie with their backs uphill. Put a 2x4 under the front of the house.

With a brooder at the rear of the house, this system will save pigs.

**Be sure that the sow farrows her pigs in a clean pen. Clean the house or pen. Then scrub it with boiling lye-water — using one pound of lye to 30 gallons of water. The water has to be boiling to kill worm eggs.**

Before the sow is put into her pen wash her off thoroly with warm, soapy water. Scrub her sides, her udder and the underparts of her body. That's is done so the first meal the pigs get will not be full of worm-eggs and disease germs.

Don't overlook the sow's feet. Even if you use a stiff brush, you may not be able to get the manure out from between her toes. Many experienced hog raisers make the sow walk thru a strong disinfectant on her way to the pen.

Sow's milk is lacking in both copper and iron. If the ground is still frozen, and you didn't dig a barrel of fresh, clean sod last fall, you can still prevent anemia from appearing.

Dissolve one pound of copperas (ferrous sulphate) in a quart of hot water. Add a little syrup to make the mixture sticky. Brush this on the sow's udder every day.

Even if you start out with good sanitation in the farrowing pen, you can still lose all of the ground you have gained if you turn sows and pigs out on infested lots.

That explains the plank or board floors which you see in front of so many hog houses. The planks can be disinfected and kept clean. Then the sows and pigs should be hauled out to clean pasture; don't drive them thru old lots.

The best hog raisers feed their sows pretty carefully at farrowing time. You want the sows to come to the farrowing date in good flesh, but not carrying too much fat.

**For the first two or three days after she farrows, whole dry oats or ground oats in a thin slop is all the feed that a sow needs. But see that she has fresh water at all times.**

In four or five days, you can start feeding more if the sow is not constipated or feverish. She should be back on full feed in a week or 10 days.

Some men go to the extra work of slopping brood sows to increase the amount of liquid they drink. That helps the milk flow. A big milk flow is important.

It's important, too, that pigs have a pen or creep of their own by the time they are a week old. The earlier they start eating, the faster they grow. Hulled or rolled oats make a good starting feed for baby pigs.

Exercise and sunshine are cheap. Sows and pigs need both.

Don't forget to mark the gilts from the best litters—or mark the litters you don't want to keep. Keep a pair of nippers handy, so you can clip off the pigs' wolf-teeth.

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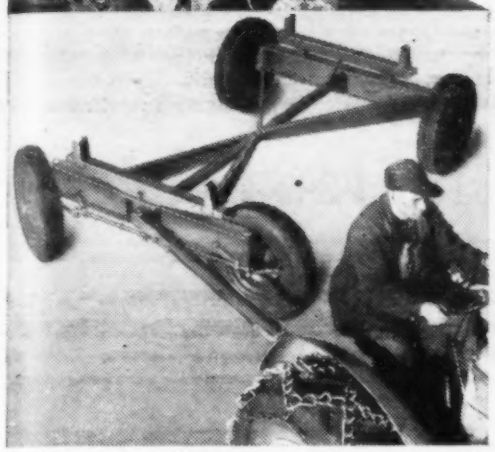
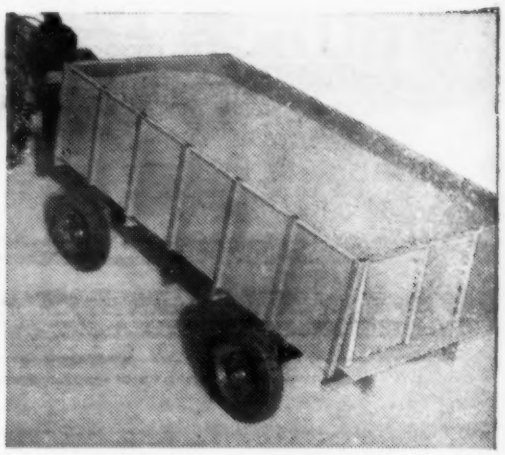
# "It's new!...this FARMHAND "90" WAGON actually turns in its own length!"

THE FIRST major development in farm wagon design in years! Makes full 90° turns under capacity loads with no tilting . . . no skidding . . . no backing up. And look at these other great features!

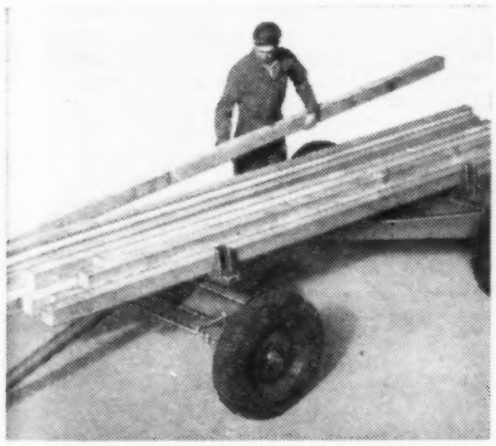


**RIGHT ANGLE TURNS** with constant support under load . . . with no cramping or tipping or danger of bending tongue. This outstanding FARMHAND "90" Wagon follows normal turn of *any* row crop tractor. Turning radius is length of wagon. Wagon pivots on rear wheel. An exclusive FARMHAND design!

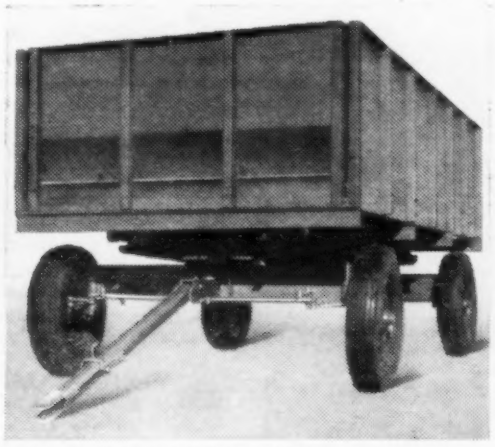
**NEW! QUICK HITCH EXTENSIBLE TONGUE** for easy, positive hitching in seconds! Just back tractor up and *pull out* tongue extension to tractor hitch. Drop in bolt, back tractor to lock tongue extension . . . then off you go! It's another of the outstanding features that make the FARMHAND "90" the wagon everybody wants!



**72" EXTRA-WIDE CONSTRUCTION** . . . 8" - 10" wider than other standard wagons. Straddles corn rows, accurately follows track of row crop tractor for easy pulling. The FARMHAND "90" Wagon provides rock-solid stability under heavy loads with its extra width, yet meets all standards for road hauling.



**BUILT L-O-W** for easy loading . . . can be used with farm elevator hoist for dumping load. Fits all standard wagon boxes and hay racks. Length is adjustable from 8' to 12' at 1' intervals with steel bolts to lock reach safely and securely in position . . . even at full length for hauling pole wood. Rear reach hitch for wagon trains.



**STURDY STEEL THROUGHOUT** with front and rear bolsters adjustable for width. Front bolster can be easily changed from fixed type to rocking type. Heavy duty bolsters are of formed steel . . . wide and smooth so they won't damage box. Stake pockets for pole wood supports. The FARMHAND "90" is built to last.

**MADE BY THE MAKERS OF THE FARMHAND** Hydraulic Loader . . . so you know it's top quality with every important design improvement you could ask for. See your FARMHAND Dealer about the FARMHAND "90" Wagon and earliest delivery dates. And get the facts on the FARMHAND Loader. You'll want one . . . sure!

## Look at these features!

**Full 90° turn** with no slipping or backing.

**Follows normal turn** of *any* row crop tractor.

**Low construction** for easy loading.

**72" extra width** for easy row crop use.

**Adjustable length**—8' to 12'.

**Rubber auto tires**—600x16 to 700x16.

**Adjustable**—fixed or rocking front bolster.

**Stake pockets** (can be bolted) for pole wood supports.

**Timken** roller bearings with dust caps and grease seals.

**Automotive type** steering with replaceable bushings.

**Weight 570 lbs.** Capacity up to 5 tons.

**Farmhand "90" Wagon**
**Write us for more information and name of nearest dealer**

# Farmhand "90" WAGON

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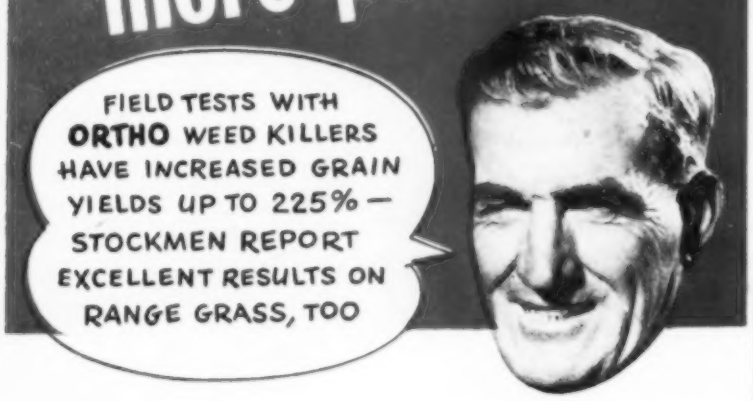


FARMERS AND STOCKMEN all over the country are using ORTHO 2,4-D Weed Killers, ESTERCIDE and WEED-B-GON products to increase profits.

Farmers report ORTHO 2,4-D Weed Killers give them greater corn and grain yields—reduce harvesting and handling costs—improve quality and *increase farm income*. For example, preemergence spraying in one locality eliminated all cultivation and showed a 15% increase in yield.

Stockmen say ORTHO 2,4-D Weed Killers greatly improve growth of range or pasture grasses. When weeds are dead they can't compete for food and moisture with grass. 2,4-D Weed Killers properly applied will not harm livestock.

ORTHO 2,4-D Weed Killers are proved products —millions of acres have been sprayed with them. Call your ORTHO Dealer today — he'll give you expert spraying advice plus full information on these outstanding ORTHO 2,4-D Weed Killers:

**ESTERCIDE 330 Weed Killer**

• An Isopropyl Ester formulation of 2,4-D which contains 3.3 pounds (52.8 ounces) of parent acid per gallon. • Completely soluble in oil. Reduces evaporation in low volume (2 or 3 gallons per acre) applications. • Will form a stable emulsion with minimum of agitation when mixed with water. • Maximum wetting through better penetration of plant tissues. • Effective against waxy-leaved plants such as cattails, wood perennials such as willows, poison oak, and most broad-leaved plants such as morning glory, curly dock and many other difficult-to-control weeds.

**WEED-B-GON 64 2,4-D Weed Killer**

• An amine salt of 2,4-D containing 64 ounces (4 pounds) of parent acid per gallon. • Completely soluble in water with slight agitation. No settling out of material. • Excellent wetting and penetrating agents for maximum kill. • Non-volatile and easy to handle. • Effective against wild radish, wild mustard, sunflower, fan weed, Russian thistle, cocklebur, many broad-leaved water weeds, tules and other narrow-leaved sedges.

**ESTERCIDE-T 245**

• A hormone Weed Killer — isopropyl ester of 2, 4, 5-Trichlorophenoxyacetic acid, plus oils, wetting agents, carrier solvent, emulsifying agent. • Mixes readily with water or may be diluted with kerosene or stove oil. • For use in controlling woody plants and gives better control than 2,4-D of hard-to-kill woody perennials. • Can be mixed with ESTERCIDE 330 for extended coverage and utility.

***Don't let weeds get a start — call your ORTHO Dealer or ORTHO Fieldman now!***

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**CALIFORNIA SPRAY-CHEMICAL CORP.**
705 Walnut St., Kansas City, Mo., phone Grant 5126
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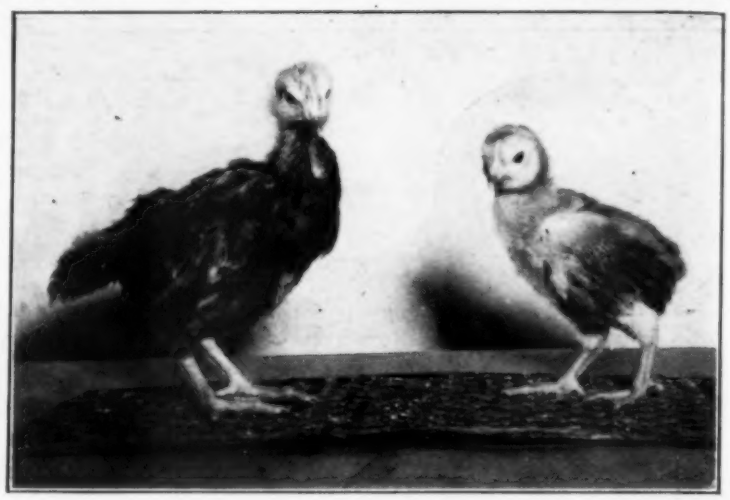
ORTHO, WEED-B-GON Reg. U. S. Pat. Off.

**Vitamin B-12** was injected into the egg from which the big chick was hatched. It took just one-millionth of a gram to do the job. The scrawny chick didn't have that help. Both chicks got rations that were short on Vitamin B-12. Pictures are from the Bureau of Animal Industry, United States Department of Agriculture.

# Fewer Chicks, Little Pigs Will Die

*Vitamin B-12 Cuts Death Losses With Chicks And Speeds Up Early Growth*

IN THE days when farmers fed hogs mostly hard corn and water, they often got a stunted bunch of pigs. Then the farmer would say: "Guess I'll have to get a carload of cattle for these hogs to run after."

The farmer knew that running after cattle would help his hogs. But he didn't know why.

Feed specialists found part of the answer about five years ago. Hogs, they discovered, get something they need out of manure besides just soaked corn. They called this mysterious substance an "unknown growth factor."

Now, researchers have solved another big part of the mystery. They have separated the growth factor out of manure.

**They've discovered at least part of what is in it. They've learned how to make it in the laboratory. And they've given it a more definite name: Vitamin B-12 plus X, or animal protein factor (APF).**

It was about five years ago that Wallaces' Farmer and Iowa Homestead first told its readers about the growth factor in manure. In a report on studies at the Wisconsin experiment station, our issue of December 2, 1944, had this to say:

"Fastest daily gains on pigs were made by a ration containing . . . 5 per cent alfalfa and cow manure. . . . The value of manure in hog rations is due to B-complex vitamins synthetized in paunches of four-stomached animals."

In the last five years, further studies have been made. Wallaces' Farmer and Iowa Homestead for October 16, 1948, said:

"Feed specialists don't know all about feed yet. There is a growth factor in animal proteins that has them puzzled. . . . R. M. Bethke, of the Ohio experiment station, says this unknown growth factor exists in animal proteins and in the rumen of a cow. It is also found in manure."

In 1946, H. R. Bird, at the U. S. Department of Agriculture's Beltsville, Md., experiment station, used chicken manure as a source of the so-called animal protein factor.

Bird found that the factor cut chick losses when fed to laying hens in a hatchery flock or when injected into hatching eggs.

It's been found to be good in chick feed, too. Chicks that survive the first two weeks will grow lots faster if they get APF.

Now, what about pigs? About 30 experiment stations, including the Iowa station, are trying to find out. First reports indicate much the same benefits as with poultry.

Says Damon Catron, of Iowa State College: "APF has tremendous implications. It will make more uniform feeds."

Feed specialists believe that sows should have the animal protein growth factor thru gestation and lactation periods. This gives the pigs a reserve of the growth factor. But feeding young pigs the growth factor directly will probably show the same good results as with chicks.

**APF is not a substitute for protein, however. You will still have to balance hog and poultry rations with protein. But the new factor may make a difference in the kind of protein you have to buy.**

This point should be kept in mind: A good ration can be made without APF in concentrated form. Animal proteins and fish products contain the growth factor. So mixed proteins can provide everything a good ration needs.

But with the APF factor it might be possible to use vegetable proteins entirely. Or, APF can be added to mixed proteins to fortify them.

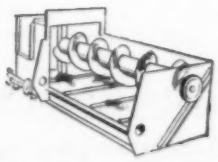
So, it is big news to farmers that researchers have learned how to make APF, or Vitamin B-12 plus X, from animal proteins, fish products, manure and other sources.

It looks as if the livestock feeder is about to take a big step toward higher feeding efficiency. Some think that APF will mean as much to the livestock man as hybrid corn means to the grain grower.

# More NEW HOLLAND Balers in use than any other automatic baler..!

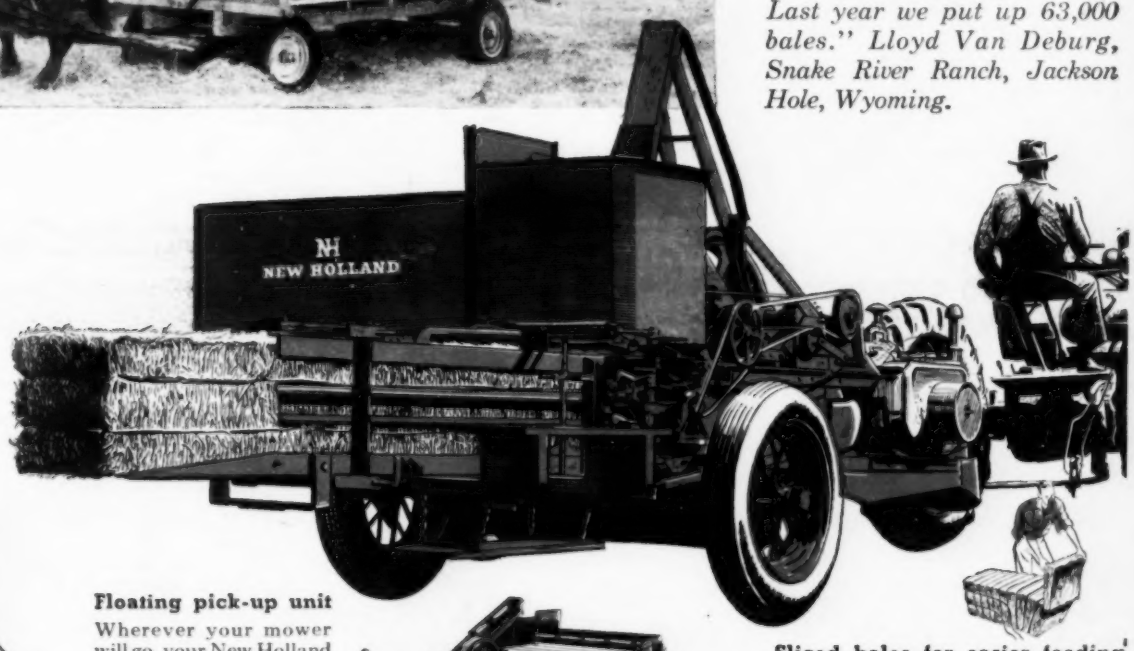
**Eight years ago the pioneer—today New Holland is the world's largest maker of automatic hay balers! That's because New Holland offers you the highest capacity . . . the sturdiest machine.**

*"1,000 bales in a stack call for well-made bales and tough twine. And that's what we get when we thread our New Holland Balers with New Holland Black Twine. Last year we put up 63,000 bales." Lloyd Van Deburg, Snake River Ranch, Jackson Hole, Wyoming.*



**Leaf-saving auger and belt feed**

Here's a special New Holland feature that helps save all the high-protein leaves. See how the auger and conveyor belt, moving together, gently carry hay to the baling chamber.



**The one and only Baler Twine Certified by The United States Testing Company**

The United States Testing Company, one of America's largest impartial testing laboratories, has awarded the Seal of Approval to New Holland Baler Twine.

The Seal of Approval is awarded only to twine that measures up to the rigid standards of The United States Testing Company covering quality, strength, durability, uniformity and rodent repellency.

New Holland Black Twine is the No. 1 choice of farmers everywhere. You won't find a stronger, easier-running, better-knotting twine at any price. New Holland Treated White Twine is also available.

**Floating pick-up unit**

Wherever your mower will go, your New Holland Baler can go too! A Floating Pick-up allows you to use your baler on uneven or terraced ground.

**Sliced bales for easier feeding**

Once the twine is cut, a New Holland bale comes apart neatly in easy-to-feed slices. This feature means not the hay mow *but the cow* gets the precious high-protein leaves!

**This loader picks up bales from any angle—no more hand lifting**

*How it works:* New Holland's sturdy loader is the final step in mechanized haying. It hitches to truck or wagon, needs no power of its own. The front-wheel "bale guide" lines up bales, gently carries them to adjustable discharger platform—in one quick motion.

***Buy New Holland products only from an authorized New Holland dealer. He alone can give you competent service and genuine parts!***

*Free*

**Fully illustrated catalogs** showing New Holland Equipment in detail. Please check type New Holland equipment in which you're interested and mail coupon today!

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- ☐ Side Delivery Rake
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**ONLY DELAVAL GIVES YOU MAGNETIC UNIFORM MILKING**

From the Pulso-Pump the DeLaval "Magnetic Heart" controls the milking speed and action of each unit in use. All units *must* milk alike and cannot vary from milking to milking.

Most other types of milkers have a separate pulsator for each unit and great variation in milking speed and action is possible.

The result is like constantly changing hand milkers . . . a serious loss of milk production.

Uniform milking gets *all* the milk—and only the De Laval Magnetic Speedway Milker assures absolutely uniform milking.

**New De Laval Sterling Milker**
Another great new De Laval Milker for still better milking at lower cost. New from stainless steel units to pump.

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The cleanest skimming, easiest-to-clean separators ever built. Every part milk touches is stainless steel.

**New De Laval Speedway Water Heater**
De Laval engineered for the dairyman. Supplies 12 full gallons of 185° water. "Lifetime" copper tank.

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**Talk It Over** At the Delaware county, Iowa, Better Milking Clinic, in Manchester, Delmar Miller discusses mastitis with Dr. J. B. Herrick, extension veterinarian from Iowa State College.

# Improved Practices Fight Mastitis

### *Dairymen Say Good Milking Improves Quality And Helps To Control Disease*

DAIRYMEN know mastitis is a disease where an ounce of prevention is worth a pound of cure. It causes huge losses to corn belt dairymen.

To help provide the ounce of prevention, and to avoid the losses, the Iowa State College extension service is holding a series of 37 Better Milking Clinics this winter.

**The visiting farmers attending these clinics find that the benefits of better milking are two-fold. Better milking not only helps to prevent mastitis, it also results in a higher-quality product.**

At the Delaware county clinic, Dr. John B. Herrick, extension veterinarian, pointed out that overcoming mastitis involves more than the use of drugs.

"There are 10 different organisms which can cause mastitis," said Doctor Herrick. Some of these are present in nearly all udders all the time, so trouble can start any time the herd isn't managed properly.

The prevention of injuries is important. Udders may be injured by bruises, by chilling, or by the improper use of the milking machine.

**The clinic includes a movie prepared by W. E. Peterson, a Wisconsin dairy specialist.**

Pictures show how tender membranes in the udder can be damaged by improperly adjusted or improperly operated machines.

Other pictures and charts explain why cleaning the cow's teats with a warm, wet cloth is a help in stimulating milk flow. And how such washing improves the quality of the milk.

"Fast milking" does not refer to the rate of the pulsator on your machine. It means that you must train cows to milk out rapidly. Don't leave the milker on the cow too long.

"Stripping out" is done by manipulation of the teat cups. A final stripping by hand is not recommended.

**The place to do hand stripping is at the start. A few squirts from each teat should be milked into a strip cup.**

A cloth filter placed over this cup allows you to check each quarter for garget or mastitis. These first squirts contain most of the bacteria, and should be discarded anyway.

Cleanliness pays in fighting mastitis as well as in producing quality milk. Doctor Herrick recommended sprinkling lime or super-phosphate on the cleaned stable floor. "It helps keep it dry and will show up the dirt, too," he said.

Young Donald Hartke, who helps his father, Fred, with their dairy herd, had a suggestion on keeping cows clean:

**"It makes it a lot easier if you use an electric clipper to clip the tail, udder and flanks," he pointed out.**

Thanks to new wetting agents, cleaning a milker is not the chore that it used to be. R. W. Rudnick and Karl Wester demonstrated that. Everything can be done in the time it takes to milk one extra cow, they say.

They recommend washing the milker at the barn, as soon as you finish milking, with hot water and a good detergent.

If a chemical solution is used for sterilizing, the solution should be drawn thru the machine just before milking starts. Rudnick warned that no mechanical cleaner at a creamery can wash a can clean enough—so sterilize the cream or milk cans, too.

Even if you have provision for hot water at the dairy barn, small pail-size electric heaters are useful in getting water up to boiling, Rudnick pointed out.

# RESEARCH PROJECT

## to make Electricity More Useful on Iowa Farms

### IOWA STATE COLLEGE CONDUCTS 5 YEAR STUDY

**to Assure Better Utilization of Electric Service**

Re-wiring the C. H. Hotz farm in Webster County was one of the first projects on this research program. Work is also progressing on the George Hora farm in Washington County; the Lewis Hadsall farm in Jasper County, and the Roy Kramer farm in Black Hawk County.

REDDY KILOWATT is "going to school" at Iowa State to learn to serve Iowa Farmers more efficiently. Iowa State College and the Iowa Utilities Association have undertaken a 5-year cooperative program to develop 10 demonstration farms throughout the state. The objectives of this program are to show how electricity can reduce chore labor and increase and improve production.

As the research projects progress, reports will be available through the Agricultural Extension Service and your electric company. Every farmer in Iowa will be able to enjoy the benefits of these studies for better living on his farm. Helping Iowa State College with research for the welfare of Iowa farmers is a long-standing policy of the Iowa Utilities Association. Thousands of Iowa farmers profited from the findings of the joint research project on the Garner farm line in 1926-28.

Your electric company, listed below, is happy to work with the outstanding leaders at Iowa State College on this important program, designed to make farming more profitable and more enjoyable.

*A TIMELY MESSAGE FROM*

## THE ELECTRIC COMPANIES OF IOWA

*PIONEERS IN RURAL ELECTRIFICATION*

CENTRAL STATES ELECTRIC CO.
PEOPLES GAS & ELECTRIC CO.
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IOWA SOUTHERN UTILITIES CO.
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Reddy Kilowatt
• The friendly symbol of the electric light and power industry.

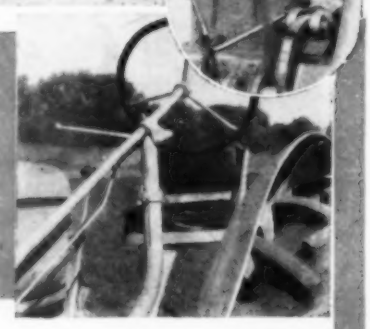
Announcing the NEW MM MODEL "Z" VISIONLINED TRACTOR

A PERFORMANCE PROVED MM PRODUCT WITH MANY NEW IMPROVEMENTS

NEW POWER — NEW LOOK — NEW FEATURES

**UNI-MATIC POWER - Gets More Work Done Every Hour**

MM supplies a new hydraulic control mechanism for raising or lowering and controlling farm implements. Uni-Matic controls permit pre-selection or changing of tool depth or height of cut. It has tested safety features for both operator and machines, and frees the operator's hands and feet for greater safety. Operation of the hydraulic mechanism is controlled by an easy-to-reach, simple-to-use, finger-tip lever. Uni-Matic Power provides "push-button" farming, reducing fatigue, labor, and drudgery. Available as optional equipment on MM's famous Z, U, R and G Visionlined Tractors.



MM's new model Z tractor is *packed with power* . . . greater piston displacement makes the new Z a heavy-duty tractor for heavy-duty work . . . gives the new Z a new zest for the roughest, toughest farm task! Around 10% more power puts the new Z in the 3-bottom-plow power class in most conditions. It is built to do the job faster with a reserve of stepped-up power for drawbar, belt, and power take-off equipment. Moreover the new Z is equipped with Uni-Matic Power—MM's new hydraulic mechanism for accurate height and depth control of mounted and pull behind implements.

Other improved features of the new Z assure continued top performance with greater versatility, economy, and long-life dependability. Larger 11:38 rear tires give greater traction . . . radiator is strongly constructed with cast top and bottom tanks, steel side frames, and a core that can be easily removed.

The new Z steers with "new car" ease and simplicity. The steering wheel is adjustable for height. The new Z provides the *right* speed for the job with five forward speeds (2.4, 3.6, 4.6, 6.3, and 13.1 mph) and 2.2 mph in reverse. High-turbulence combustion engine with controlled cooling, full pressure lubrication and with a balanced 3-bearing crankshaft delivers smooth power. The new Z is strongly constructed throughout for maximum service year after year, and all parts are easier to inspect and to service when necessary.

**Four Front End Styles**
**Adjustable Rear Wheel Tread**

Four front end styles adapt the new Z to any farming method. Model ZAU is a universal type tractor with two front wheels close together—The ZAN is a tricycle type universal tractor with one front wheel—ZAE has a front axle permitting tread adjustment from 56" to 84". Rear wheel tread adjustment on these three models is 54" to 88". The ZAS is a standard four wheel model—wheel tread 48".

The same approved Quick-on—Quick-off and Attachor tools are available with the Z for easier, safer Visionlined row-crop work . . . Safer for the crops because all tools are in full view of the operator without awkward neck stretching to avoid running down rows . . . Safer operation with smooth, positive MM Uni-Matic Power.

**See Your Friendly MM Dealer**

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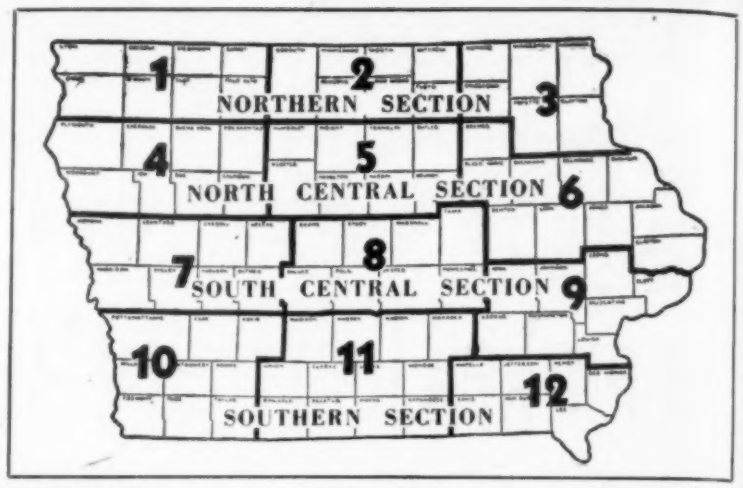



**Test Fields** for Iowa corn yield test were located in each numbered district. 1948 results plus two, three and four-year averages are available in a bulletin issued by Iowa State College.

# Corn Breeders Grow Better Hybrids

*Experimental Entries Again Out-Score Popular Varieties In Corn Yield Test*

BETTER hybrid corn is on the way. Despite the record 1948 corn crop, hybrid corn growers aren't resting on their past laurels.

In the 1948 Iowa corn yield tests, experimental hybrids won twice as many top places as hybrids now available to farmers. Scores were based on yield 50 per cent, moisture content 20, lodging 20, and dropped ears 10 per cent.

**You probably can't buy any of the experimental varieties yet, because not enough has been produced. But eventually the improved hybrids will reach the market.**

The 1948 Iowa corn yield test followed the pattern used in previous years.

The state is divided as the lines on the map show. One test field is located in each of the 12 districts. Each entry is planted in all three districts in the section.

Average yield of all entries in the test was 88.75 bushels per acre. This is record high for the 14 years of the Iowa corn yield tests. Moisture content was 1 per cent below the 14-year average. Stand was about normal. Percentage of dropped ears was about equal to the 14-year average.

Are farmers now planting the best available hybrids? To find out, questionnaires were sent to farmers to learn the most popular varieties in each of the 12 districts. The 10 most popular varieties in each section were planted along with other entries.

Two-thirds of the widely-grown hybrids performed below the average of all tested.

Here are the three highest scoring entries for the sections. Remember, figures are performance scores, not yields per acre. Experimental hybrids are indicated by "(Exp.)."

**Northern Section**—Pioneer 349, Pioneer Hi-Bred Corn Co., Des Moines, 110.76; Pioneer 352, Pioneer Hi-Bred Corn Co., 109.24; Tomahawk 42 (Exp.), Thompson Hybrid Corn Co., Inc., Belmond, 108.33.

**North-Central** — C258 (Exp.), Clarke Hybrid Corn Co., Conrad, 107.16; Mullins J-54 (Exp.), Mullins Hybrid Corn Co., Britt, 105.66; HOW (Exp.), Epley Brothers, Shell Rock, 105.56.

**South-Central** — Tomahawk 80 (Exp.), Thompson Hybrid Corn Co., 107.72; C277 (Exp.), Clarke Hybrid Corn Co., 107.21; H-3, Holden F. S. and Exp. Farms, Williamsburg, 107.17.

**Southern** (Districts 11 and 12 only)—218-H, Holden Hybrid Seed Farms, Tipton, 109.44; Tomahawk 88, (Exp.), Thompson Hybrid Corn Co., 105.64; Meyer 591 (Exp.), Winterset Hybrid Co., Winterset, 105.50.

Perhaps farmers should take note of what hybrids win over a number of years. Here are the top three hybrids, with average performance scores for four years, 1945 thru 1948:

**Northern Section**—Iowa Hybrid 4441 (Exp.), USDA and Farm Crops, Ames, 107.37; Tomahawk 42 (Exp.), Thompson Hybrid Corn Co., 105.64; DeKalb 410, Iowa Corn and Small Grain Growers Assn., 102.08.

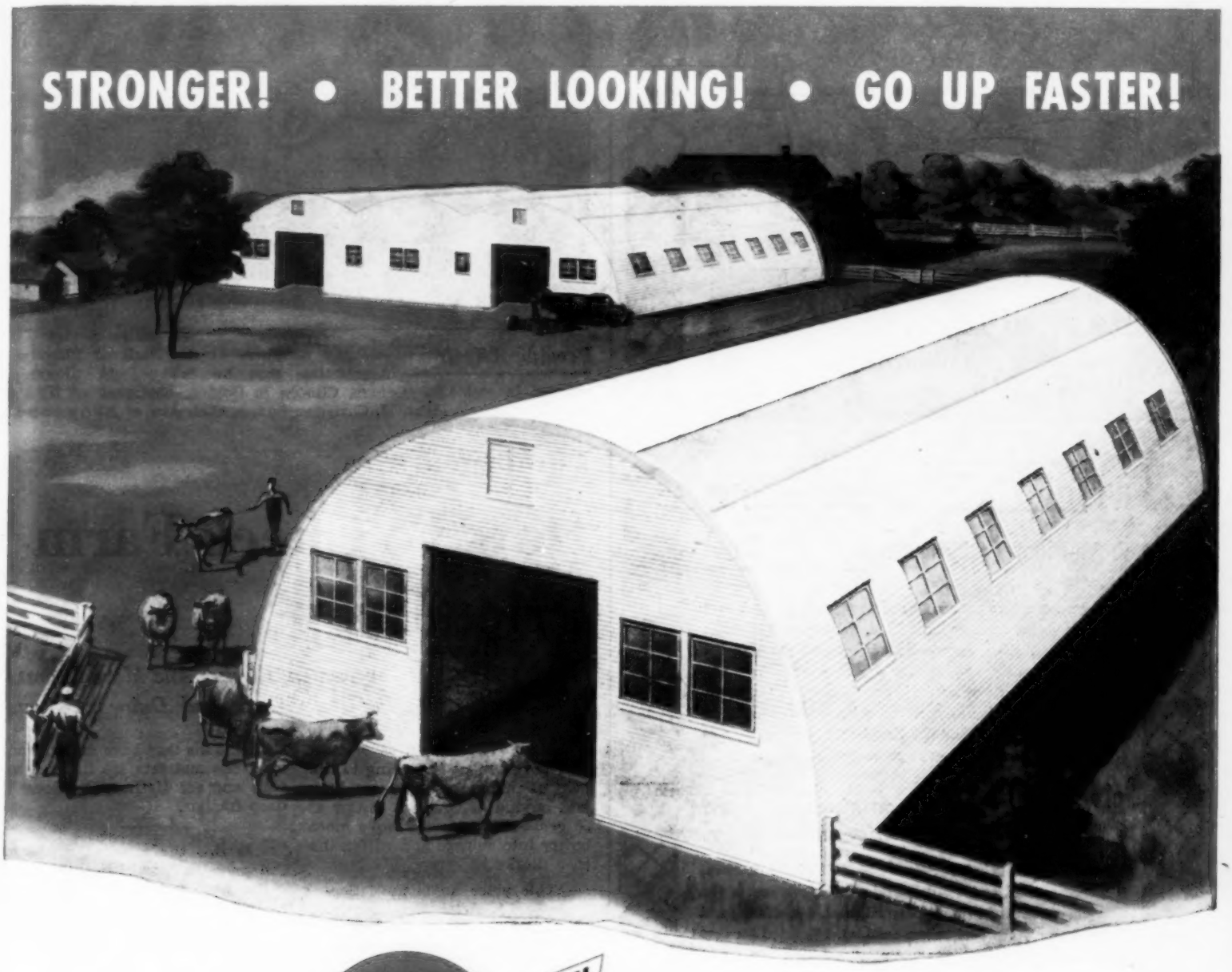
**North-Central** — Iowa Hybrid 4297, O. W. Johnson, LeGrand, 104.72; Cornhusker 148, Cornhusker Hybrid Co., Fremont, Neb., 103.64; Iowa Hybrid 4298, Iowa Agr. Exp. Assn., Ames, 102.63.

**South-Central** — Ohio Hybrid C92, J. H. Isenhart, Batavia, 105.30; Funk G-37, Funk Bros. Seed Co., Belle Plaine, 103.29; Ohio Hybrid C92, Iowa State Hybrid Corn Co., Elkhart, 103.09.

**Southern** — Turner S53, Turner Hybrid Seed Corn Co., Grand Junction, 101.88; U. S. Hybrid 13, Lincoln Seed Co., Pacific Junction, 101.78; U. S. Hybrid 13, Iowa Corn and Small Grain Growers Assn., 101.32.

**There are many other good hybrids besides the three at the top. In fact, the performance scores of the top 20 entries in most sections are so close that there is little practical difference between them.**

The corn-growing farmer can afford to study the full results of the 1948 corn yield tests. You can get the report by writing the Bulletin Office, Iowa State College, Ames, Iowa. Ask for Iowa Corn Yield Test Bulletin P97.

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## *Now a Better Value Than Ever Before*

Now, more than ever before, the Quonset lives up to its name as "the world's most useful building." Here are all the famed Quonset advantages of economical cost, fast erection and versatility—plus design improvements from slab to crown to make Quonset farm buildings stronger, better looking, more durable.

The new Quonsets go up faster! Quonset farm buildings are ready for use sooner! The new simplified design reduces construction time by more than 25%. A more efficient method of bridging and bracing gives the new Quonsets even greater structural rigidity than before. The new, specially developed Quonset windows afford added protection against weather.

See your Quonset dealer today for complete information on new and improved Quonsets. There is a Quonset to fit *your* building needs.

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**UNIT OF NATIONAL STEEL CORPORATION**

**Now! Milk products in new easy to feed form!**

**It's KRAYLETS 80% milk products* in economical, convenient dry kernel form!**

Now, you can give your hogs milk products without *any* water or waste, mess or flies! Feed *Kraylets*—80% milk products in thrifty, easy-to-feed dry kernel form. Not a liquid, not a paste, but sanitary *dry kernels!* When you mix Kraylets with other feed, your hogs will eat more. Kraylets helps to increase consumption of feed—pack on thrifty extra pounds. And dry Kraylets is tops for *concentrated* value. You only need ¼ pound per hog daily.

**Kraylets contains 80% concentrated milk products!*

The milk products in Kraylets are 65% dried cheese whey, 9% cheese rinds, and 6% dried skim milk. The rest of the formula consists of 14% soybean oil meal, 4% alfalfa meal (dehydrated), 1% beef tallow (edible), 1% dried brewers yeast.

**Kraylets' efficient milk protein puts other feed to work for thrifty gains!**

One of the highest quality, most efficient proteins of all is *milk protein*. That's why Kraylets—80% milk products—is so valuable in promoting fast, thrifty gains. Kraylets' milk proteins are *casein* with a growth-promoting value of 84%, and *lactalbumen* with an even higher growth-promoting value of 96% (by actual laboratory feeding test). These proteins put lower quality proteins (in grains) to work—make them provide more pounds of gain per pound of feed! Kraylets also provides milk minerals—calcium and phosphorus, so essential to good bone and body structure, and lactose (milk sugar), which promotes good health and minimizes the hazards of intestinal parasites.

**Find out about profit-boosting Kraylets from your dealer, today!**

*Or Write*
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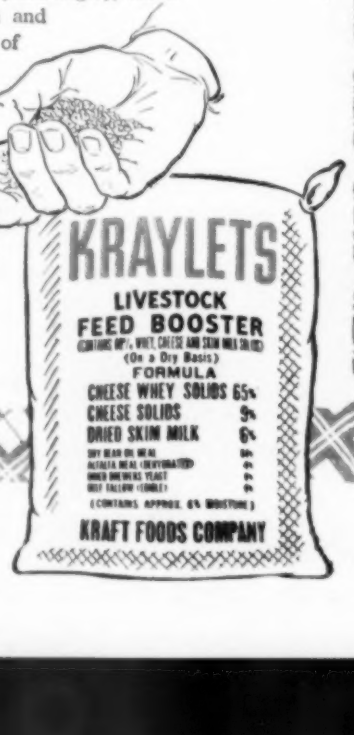


**A KRAFT PRODUCT**

(Chase-Statler Photo)

**President Truman** told the members of the National Planning Association that he believed in planning against depressions. Center, Clinton S. Golden, chairman of NPA's labor committee; right, H. Christian Sonne, chairman of NPA's board.

***Washington Wire***

# How To Check Farm Price Drop

*Government Buying And More Exports May Help Lard And Dairy Products*

WASHINGTON, D. C. — The government is coming to the help of midwest dairymen. Federal buying of Grade A butter at 59 cents a pound will move more butter into storage and stiffen the cash market.

**This price holds until September 1. After that, to the end of the year, the buying price rises to 62 cents a pound.**

More dried non-fat solids (skimmilk) will be bought, too. And there is a chance that condensed milk will also be purchased.

After the government buys, what happens to the product? Butter will be stored, on the theory that the market will come back. More dried milk and condensed milk may be exported.

Butter and butterfat prices have dropped nearly 30 per cent in the last year. In spite of high pay rolls, and heavy consumption, all dairy products have been in trouble.

That's why the government is acting. It is hoped that consumer buying will stiffen and that government buying won't have to continue indefinitely.

Meanwhile, the dairy situation puts more strength behind the pressure for more money for school lunches and for a revival of the food stamp plan.

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**Butter and other oils and fats, including lard, may be helped by the present movement to lift export allocations. If the outside world were permitted to buy here all the fats and oils wanted, the price should rise.**

Factors holding back a price rise, even tho export allocations are removed, are these:

1. Hungry nations which would like to buy aren't able to trade their goods for our oils and fats. High tariffs here prevent a trade.

2. Nations that have dollars and need oils and fats are inclined to wait and see if the price doesn't drop further.

---

**Is this the start of a new depression for farmers? Is the post-war crash really in sight?**

Most experts say "No." Employment is still high. Pay rolls are still good. Government spending will pick up soon.

Watch congressional action on funds for European relief. The total amount for European help from April 1, 1949, to July 1, 1950 may be voted at one time. When that happens, look for a pick-up in exports.

**Farm products should feel this help in April. Other federal expenditures will come along to boost buying power in the last half of 1949.**

Few farmers realize how much is being spent on the armed services now. There are about 1,600,000 men in uniform. Nearly a million civilian workers are hired by the armed services. And three or four million more are working to make goods the army, navy and air force needs.

Federal spending on the present big scale is one reason that few people here are worrying about a real crash in farm product prices.

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**Why don't prices to the consumer fall faster? If retail prices dropped as fast as farm product prices, consumers would be picking up bargains in eatables and surpluses would be eaten up.**

Congress is digging into this question again.

---

The struggle over oleo is still going on. The American Farm Bureau Federation, torn between

## MORE CRIBS

**This is what Wallaces' Farmer and Iowa Homestead said about corn cribs and corn price on August 21, 1948:**

**"You can't use the corn loans unless you have storage for the corn. . . . Crib space has been disappearing. Fallen-down cribs have not been replaced in the last few years.**

**"Price insurance to the corn farmer lies in having enough crib space. It's time to compare your expected corn crop with your cribs.**

**"Act now to protect yourself from a possible bad winter corn market. More corn cribs will protect corn price."**

dairymen and soybean-cottonseed men, says:

"We favor removal of special taxes on margarine if and when satisfactory means are taken to identify margarine and butter."

Secretary Wilfred Shaw, of the AFBF, adds: "We insist that consumers have the right to know what they are buying, and that the dairyman is entitled to protection of butter's identity."

---

The sharp drop in corn prices indicates that the trade doubts whether storage can be found for corn. One guess is that the carryover of old corn next October may be 700 million bushels, more than in the big days of AAA.

**Chances now are that CCC may be asked to accept 150 million bushels of wheat, 300 million bushels of corn, and 50 million bushels of other grains.**

Instead of paying off loans, farmers will deliver these grains to CCC. Then what does CCC do with them?

One plan is to ask farmers to re-seal and to pay 7 to 10 cents a bushel for storage for another year. Other suggestions for stimulating purchase and building of cribs and bins are being made.

If more storage were in sight now, corn prices would be 20 cents higher. If enough new storage space were built, the cash price of corn would be close to loan levels next fall.

But last week, in central Iowa, the cash price for No. 2 corn was 40 cents under the loan price. You can build a pretty fair crib for that, or pay half the cost of a mighty good one, with a life of 20 or 30 years.

---

**What about future price supports? Advocates of the proposal to continue present parity supports for major products believe recent price set-backs have strengthened their cause.**

Certainly, it is beginning to look as if there will be some changes in the 60 to 90 per cent parity flexible supports, due to go into effect in 1950 under the so-called Aiken-Hope law.

It is a good guess that the flexible idea will be kept, but that it may range between 75 and 90 per cent, and that the support will not be below 90 per cent when production and marketing controls are in effect.

● Your Case dealer now has the best buy in popular-priced tractors—this Model "VAC," the light 2-plow tractor that's heavy on performance. Taking farm work as it comes, from plowing and cultivating to haying and hauling, the "VAC" is an outstanding bargain in power to get work done.

It has plenty of traction to balance engine pull, plus the right gear speed for every job. It is built to save time in turning and hitching, in mounting implements and in daily servicing. Its rear-mounted plow gets close into corners; its front-mounted cultivator works close to the row. A fast hydraulic lift saves time and effort with all mounted equipment.

Like the larger Case tractors, the Model "VAC" has a heavy-duty Case-built engine which handles a full-capacity load at moderate speed, and has continued high pull or torque when throttled down. This "lugging ability" saves a lot of gear shifting. It is one of the ways that the "VAC" is like the famous Case Model "L," for twenty years the standard by which all tractors were and are judged for economy and ENDURANCE.

You get other "big-tractor" values, too, in the "VAC." You get quick-dodge steering, that makes easy work of fast, clean cultivation. You get the famous full-swinging, self-locking drawbar for short turns with full load.

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# SCS, Farmers Battle Huge Gullies

***It Costs Real Money To Stop Erosion; But It Costs Much More To Live With It***

YOU, like most other native Iowans, probably are prone to look down your nose at Ozark hillbillies. After all, you live in a state with 25 per cent of the nation's Grade A land. Your state averages better than 60 bushels of corn to the acre.

But suppose someone pointed out that your state also had gullies 300 feet wide and 80 feet deep—gullies in which cave-ins had buried people alive, where livestock losses from falls into gullies are not uncommon. Would you believe them?

If not, you ought to take a tour of the Little Sioux flood control project in northwest Iowa. That federally sponsored program covers all or part of Osceola, Dickinson, O'Brien, Clay, Buena Vista, Cherokee, Plymouth, Sac, Ida, Woodbury and Monona counties—land drained by the Little Sioux.

**In some of the flatter parts of the basin, the need is drainage rather than the control of erosion and floods. But in the loessal soil along the Missouri river bluffs, erosion has been, and still is, a serious problem.**

In a heavy rain, that soil erodes much as if you poured water on a pile of sugar. It is fertile, but is steeply rolling. As the uncontrolled water comes off steep hills, it digs huge gullies in fertile bottoms.

You can raise 100 bushels of corn to the acre within a few feet of the lip of a 60-foot gully.

After a rain, muddy water tears down out of the hills into the Little Sioux. As soon as the river hits the level Missouri bottom, the water slows up, spreads out, and starts dropping silt.

After one of these flash floods, there may be as much as three or four feet of silt over a corn field.

Many of the upland gullies are so big that an individual farmer can not pretend to stop them. It might cost him much more than his farm is worth.

But the benefits from gully and water control in the Little Sioux and other upland water-sheds would extend all the way down the rivers to bottom-land farmers and cities—clear to New Orleans.

**That's where the federal government comes in. Since the problems, and the benefits, are more than local, Uncle Sam has stepped in to provide trained men and money to control the water and gullies.**

Under direction of the Soil Conservation Service, the Little Sioux project has been set up as an advanced testing ground for similar projects that some day may cover scores of Mississippi and Missouri river sub-water-sheds.

The SCS could hardly have found a tougher place to start. Little Sioux gullies grow deep and fast. The Monona county gully pictured below is 50 feet deep and 150 feet wide, has grown three miles in 17 years.

Another giant gully a few miles away claimed a human life in August, 1945. A little girl, playing in the gully when the bank caved in, was buried under tons of earth.

Ten or 12 years ago, farmers seven miles west of Mapleton, in Monona county, plowed a small ditch to drain a low spot. Their ditch is now a gully 25 feet deep.

The fast-moving water is expensive in other ways, too. Many a western Iowa county has suffered half a million dollars in bridge and road losses because of a few heavy rains.

How are the SCS and farmers tackling the big Little Sioux problem? Let's follow a farm thru the steps necessary to bring gullies under control.

First step is much the same as

**Seventeen years ago, this was level Monona county land. Nourse Phillips is standing where the road once ran directly toward the camera, across the spot where the gully now cuts thru. In 17 years, the gully has eaten three miles back into the countryside.**

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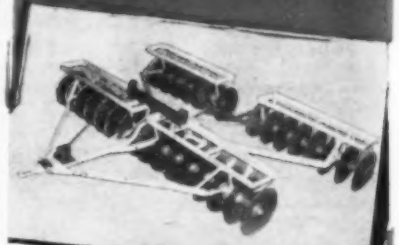

Kelly Ryan Disc Harrows employ straight pull tension for light draft and maximum cutting. Flexible connections between gang members give uniform, slashing tillage from all gangs even over rough ground or diagonally across corn rows. This exclusive flexible design enables Kelly Ryan Discs to withstand grueling field punishment.

SINGLE CUT DISC . . . with wings that one man can swing behind disc. Rope controlled tractor-seat operation of angling gangs. Designed to give maximum cutting without adding weight to the unit.

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Regardless of Condition . . . wet, hard, green, caked or lumpy . . .
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**Here Is** **Arthur Neubaum's answer to soil and water loss, hill-fed gullies. He built 18 miles of terraces on 95 acres of his Monona county, Iowa, farm, reseeded, and gets pasture like this. These hills were plowed in 1918-19, got so depleted not even grass would grow. Run-off was gullying 125 acres of good land at the foot of the hills.**

in soil conservation districts elsewhere. Interested farmers in a community — one tiny sub-watershed — get together and set up a formal organization with a three-member committee, and a name for administrative purposes.

Then the farm planner for the county soil conservation district works out a plan for each farm. It includes rotations, pasture improvement, contouring, terracing, grassed water-ways, and so on.

**When 70 per cent of the practices recommended in the farm plans actually have been accomplished, the group can ask its own county soil district to approve a preliminary survey for gully control.**

Approval by the district commissioners sends the application to the Little Sioux Works Committee. This committee is a sort of priority board, including one commissioner from each county soil conservation district in the Little Sioux area.

After the local group's application gets a priority from the works committee, a gully survey of the area is made by SCS men assigned directly to the Little Sioux project.

This survey finds out what construction is needed. It is the basis for future planning.

A meeting is held with the local group of farmers. They are asked to grant easements for the big dams and spillways. It takes quite a dam to stop a gully 300 feet wide and 60 feet deep.

County supervisors can levy up to one-fourth mill on all agricultural lands in the county, to get funds for maintenance of flood or erosion control structures built by federal agencies.

If this is not done, individual farm owners must contract to pay for maintenance. Ceiling on the first-year payment is $1.50 per acre, or 3 per cent of the cost of the structures on each farm in the project.

And one-sixth of that amount can be collected each year for 15 years.

This is the farmer's final chance to say "No." Once he signs up, the local district again helps speed up the original farm plan, and tries to get all practices in operation.

When all farmers have carried out their original conservation plans, the local water-shed group will get a construction priority, as funds are made available. Detailed work plans are prepared, a final "go ahead" secured from the Works Committee, and the big bull-dozers move in.

Just before that, however, several other groups may enter the picture. Perhaps the SCS engineers say a dam is needed right in the middle of a road; or maybe a railroad is involved.

There, again, easements have to be secured. Usually, the county has been spending hundreds of dollars trying to maintain a semblance of a road in the area, and is glad to cooperate—to the limit of funds available.

County supervisors must agree to provide maintenance of any dam serving as a roadway or a bridge, plus the cost of moving half the dirt in the original dam.

**Once work on a big dam begins, the area looks like an army was holding maneuvers. Eventually, the clatter of the big "cats" dies away, banks of gullies are sloped and seeded.**

The first "gully-washer" tells the story. Most folks are hardly able to believe their eyes.

An example is the Jones creek water-shed, one of the first completed in this area. Tho not in the Little Sioux project itself, Jones creek serves as an example of what can be done.

The Jones creek water-shed includes 1,800 acres of upland and a little more than 1,800 acres of bottom. Work was completed in 1942. It involved eight big earth dams.

Main water storage dam, at the lower end of the main water-way, will reduce flood flows by 90 per cent for rains up to four inches.

All farm land was contoured, and three miles of grassed water-ways established. Hundreds of rods of fence were relocated. Drainage ditches were cleaned.

Cost was estimated at better than $10 an acre for the whole area benefited—but cost on some farms would have been more than those farms were worth.

Actually, it's hard to say who has received the most benefit—bottom-land or upland farmers. The upland farmers don't have those cancerous gullies, and are getting better yields.

But farmers on the bottoms are not losing any more crops because of overflow or flash floods in their drainage ditches. The ditches are not silting up, either.

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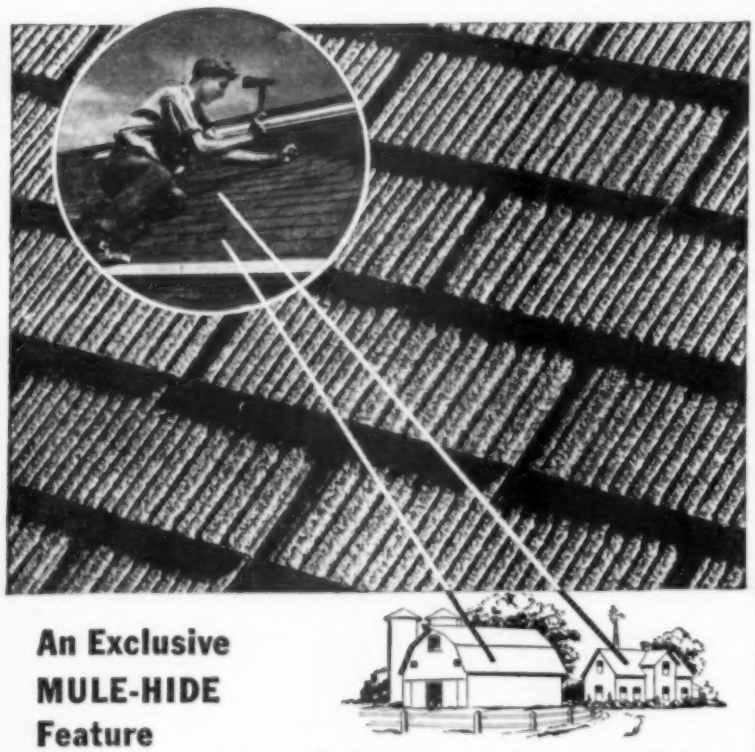

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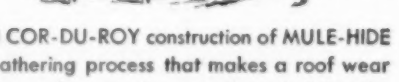

The patented COR-DU-ROY construction of MULE-HIDE Shingles *retards* the natural weathering process that makes a roof wear out. So, if you are planning a new roof on your home or farm building, be sure to investigate these better MULE-HIDE Shingles; because they provide a longer lasting roof, and give you better and longer weather protection. MULE-HIDE Shingles save you real money!

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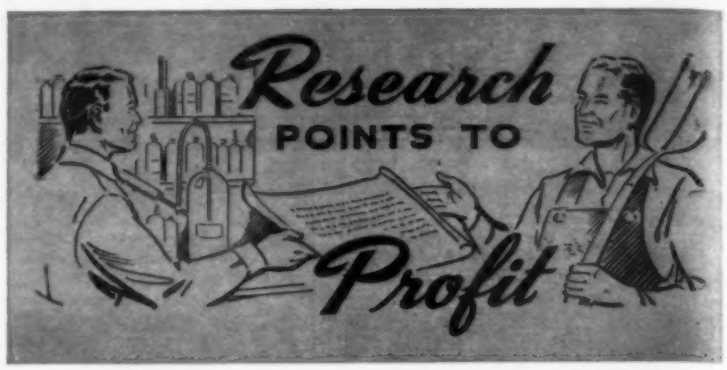



**Maybe you will want to try some of the ideas you read about in this column. If you do, go ahead. But, remember, in many cases you will be experimenting. In order to keep you posted on new developments in agricultural research, some projects are reported when they are still in the "testing" stage. When that happens, publication here is not to be taken as an unqualified recommendation.**

### Toxaphene Boosts Corn Yield

In fields heavily infested with corn ear-worm, dusting with 10 pounds of toxaphene (chlorinated camphene) per acre more than doubled yield in one 1948 test.

In the undusted check field, the ear worms hatched out another generation and seriously hurt the corn. In the treated fields, no further damage occurred after dusting.

### New, Efficient Kind Of Food Factory

The hog has been the most efficient means of converting grain or carbohydrates into meat or protein and fat. But the hog now has to take second place to a new converter, according to Nat S. Finney, writing in Look magazine.

Finney points out that the new champ is "chlorella," a green alga or single-celled plant like pond scum. Other half of the team is a yeast cell.

End product is a dried, high-protein yeast powder that tastes good, and is easy to mix in with poorer human foods. The process offers hope for the world's half-starved millions, and perhaps rest and healing for millions of acres of eroded, overworked land.

### DDT Spray Makes More Beef

Use of DDT spray to control flies on beef cattle means more profit for the producer, according to H. G. Russell, University of Illinois livestock specialist.

In a test, sprayed cattle gained more than unprotected cattle, even tho the unsprayed cattle had the best pasture. Extra gains far outweighed the cost of spraying.

Spray often enough to control flies—even once a month, Russell says.

### Molasses Feed From Wasted Wood

The problem of turning wood wastes into molasses for livestock feed will be investigated jointly by the U. S. Forest Products Laboratory at Madison, Wis., and the TVA.

Under a cooperative agreement, TVA will build a pilot plant to produce 20,000 gallons of the wood-sugar molasses a year for livestock feeding tests. The plant will be built in Alabama.

It will produce molasses from cull trees, logging residues and the unavoidable wastes of wood-working plants.

Since 1946, the Forest Products Laboratory has been sending small amounts of wood-sugar molasses to agricultural colleges and experiment stations for feeding tests.

The tests indicate it can be used in large quantities as a supplemental carbohydrate feed, along with grains and hay. It may be especially useful in mixed feeds and in preservation of grass silage.

### Double Post Life With "Penta"

Iowa farmers can save part of the $8,500,000 they spend for fence posts each year by using pentachlorophenol, says Richard B. Campbell, extension forester at Iowa State College.

Treatment with the chemical extends normal 3 to 17-year post life to 15 to 25 years. Campbell explains posts can be soaked 48 hours without any tending, and are then ready for removal and use.

### Weevil Threatens Sweet Clover

The sweet clover weevil entered the United States from Canada only a few years ago. It has steadily advanced south thru large sections of the corn belt.

The weevil can be a threat to some present rotations. It notches the leaves of sweet clover and kills young plants before they get started in the spring.

Dusting with DDT in mid-April gives "fairly good control," according to Dr. J. A. Munro, entomologist at the North Dakota agricultural station. He says the best time to treat is when foliage is well started on second-year plants.

### Vast New Area For Beef Production

British scientists point to antrycide as a new "wonder" drug that will open a vast area of Africa to beef cattle production.

Antrycide is expected to lick the tsetse fly in an area twice the size of the United States. If it does that, the British hope to have millions of head of cattle in the area in a few years.

Bite of the tsetse fly has meant sleeping sickness and other virulent diseases. Cattle raising has been practically impossible in the area infested with the fly.

Antrycide is already in mass production. Enough is on hand to inoculate two million cattle.

# Skinned Soil Comes Back

YOUR top soil is worth 40 bushels per acre in corn yields, according to an Ohio experiment. But corn yields on land from which the top soil has been removed will come back a lot in 10 years.

The come-back may be good news for farmers with clay hillsides. Or for those who have strips of land along the highways that have been skinned for road-building. Here is the way the Ohio experiment was run:

One acre of land had all the top soil removed with road machinery. Another acre alongside of the first was left in normal condition.

Four-year rotations were used on all plots. But additional treatments were of four kinds: (1) No lime or fertilizer; (2) lime only; (3) lime and fertilizer, and (4) lime, fertilizer and manure.

In 1937, when the experiment started, corn yield was 40 bushels less on the skinned land. Meadow crops were away down, too.

**Ten years later, corn yields on the land without top soil were only 20 bushels less than on the land with top soil. That indicates that eroded land will come back even with regular four-year rotations.**

One comparison applies to the eroded area alone. Corn yields were 26 bushels at the start, with a rotation of corn, corn, oats and clover, and no fertilizer.

With a rotation of corn, wheat, two years of alfalfa plus lime, fertilizer and manure, the corn yields went up to 80 bushels. But, of course, yields were still below those on the land with top soil.

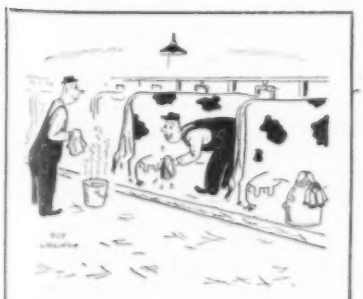
The Ohio experiment station men don't say that the same results would be obtained on all soils. They are trying the test now on heavy clay in western Ohio.

## Milk Law Will Take Effect April 15

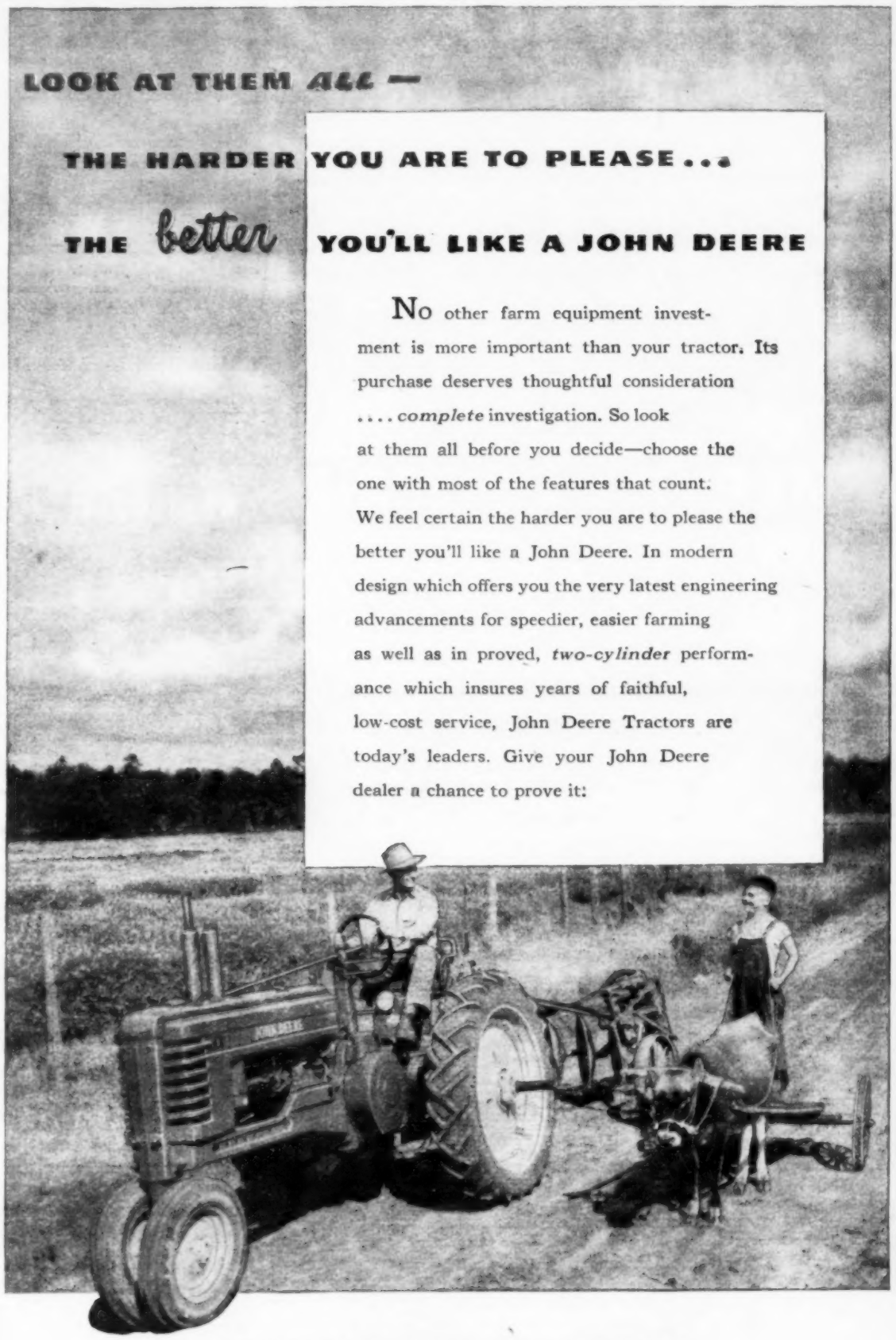
**To the Editor: We run a small dairy. Can you tell us about the new law regarding sale of milk.—S. S., Harrison County, Iowa.**

The Iowa Department of Agriculture says that the law, passed two years ago, will take effect on April 15, 1949. After that date, milk sold for human consumption must be either pasteurized or produced under certain conditions. For practical purposes, this means Grade A quality.

Regulations for production of Grade A milk are too long to print here. You can get a copy of these regulations by writing to: Dairy and Food Division, Iowa Department of Agriculture, Des Moines.



"Tonight, I'll wash and you dry."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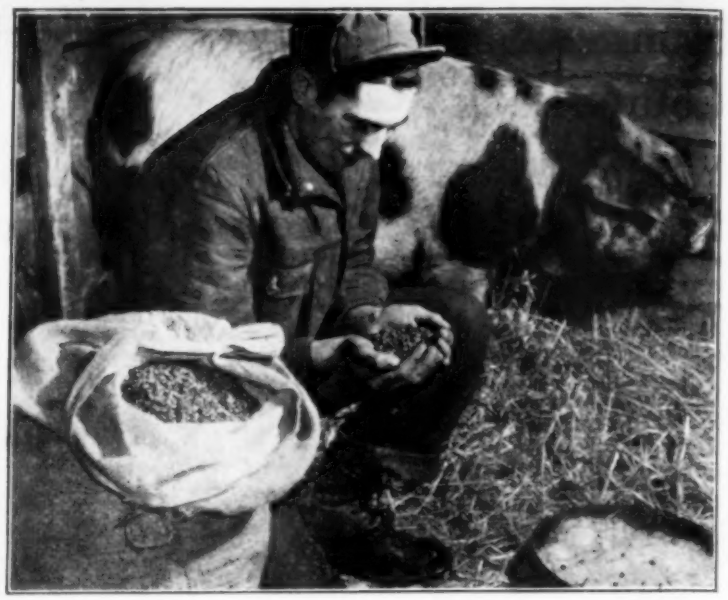

**Pellets** are an easy-to-handle form of alfalfa, reports LaVern Zunkel, of Boone county, Iowa. Here, Darwin Baedke feeds pellets to one of 22 sows which were bred for spring litters on Zunkel farm.

# Alfalfa Pellets Don't Blow Away

*Farmers Like Alfalfa In This New Form; Experiment Station Tests Are Available*

NOW you can feed alfalfa hay in pellet form. Altho it's new to most Iowans, some dairymen and cattle feeders are enthusiastic about it. They recognize several advantages:

No dust to blow away. No waste, as with hay. The large pellets (one-half inch in diameter and three-fourths inch long) can be poured from a sack or scooped like grain. They have a good protein percentage and are high in Vitamin A.

Another advantage of pellets—they store and handle more easily than meal. If you need alfalfa in a mixture, simply dump the pellets into the grinder along with your other grains.

Pelleting alfalfa was started at a Nebraska dehydrating plant about two years ago. There, the alfalfa to be pelleted is never ground into meal. Instead, the stems are finely chopped or shredded. This is dried, then pelleted.

**The pellets, it is claimed, contain more carotene (source of Vitamin A) than does finely ground meal. The reason: The alfalfa is dried at a lower heat, and need not be dried so completely.**

These "pelleted chops" are relatively coarse, and not extremely hard. Cows seem to favor that. What makes them stick together? In answer to that question, a Nebraska distributor replied: "All we use is steam."

What usefulness does pelleted alfalfa have in cattle rations? Prof. M. L. Baker, of the University of Nebraska, reports on the use of alfalfa pellets along with either silage or wild hay for wintering growing calves. Last year, Nebraska also tried pelleted alfalfa at different rates for fattening yearling steers.

In these experiments, pellets were made from the dehydrated meal. They had a high protein value and a low fiber content, as compared with alfalfa hay.

Hay is too bulky for a protein supplement, says Baker. Fattening cattle can't use enough to balance a corn silage and grain ration. But the pelleted alfalfa showed up very well in the Nebraska tests.

Can farmers short of hay feed pelleted alfalfa to advantage? C. C. Culbertson, of the Iowa experiment station, thinks it would be valuable for a beef breeding herd when only corn silage, straw or low-quality hay are available.

"You could feed half a pound per head of pelleted alfalfa early in winter," he said, "and a pound nearer spring. There is as much vitamin content in one pound of the dehydrated pellets as in two pounds of alfalfa hay."

**Cattle carried for a long feeding period on corn and poor quality roughage have sometimes run into trouble from lack of Vitamin A. Symptoms are swollen legs and briskets, stiffness and—in extreme cases—convulsions.**

Feeders used to attribute this to old corn. But neither new nor old corn, says the Federal Bureau of Animal Industry, contains any more carotene than low-grade hay. If good silage or green hay is not available, then here is another place where alfalfa pellets could come to the rescue.

In whatever form you feed it, alfalfa should be of the current season's crop. The Nebraska experimenters found alfalfa used in their tests had lost 73 to 81.5 per cent of its original carotene by the end of the 140-day feeding period. This was true of both the meal and pellets held that long. If you want it packed with the most Vitamin A, be sure it is made from dehydrated alfalfa.

Price relationships no doubt will determine how fast farmers take hold of pelleted alfalfa. At present, the wholesale price of alfalfa chops, pelleted, runs about $5 per ton higher than alfalfa meal.

# ANNUAL STATEMENT

**as of December 31, 1948**

**OF**

# A GOOD COMPANY

ANOTHER YEAR OF VERY SATISFACTORY ACCOMPLISHMENT.

FOR THE FIRST TIME THE SOCIETY HAS PASSED THE $100,000,000 MARK IN ASSETS.

SURPLUS INCREASED BY $481,778 TO A TOTAL OF $8,084,256.

PAID TO POLICYHOLDERS AND BENEFICIARIES $6,223,870.

RATE OF INTEREST EARNED 3.08%.

## ASSETS

| | | |
|---|---|---|
| **Farm Loans** | (2.0%) | $ 1,988,462.06 |
| **City Loans** Other than F.H.A. | (9.1%) | 9,181,080.99 |
| **City Loans** Insured by Federal Housing Authority | (10.2%) | 10,265,882.77 |
| **Real Estate** including $295,565.34 sold under contract | (0.4%) | 333,065.34 |
| **Policy Loans** | (4.7%) | 4,836,247.10 |
| **Stocks** | (4.1%) | 4,143,149.75 |
| **Bonds:** | | |
| State, County and Municipal | (2.3%) | 2,325,745.26 |
| Public Utility | (10.8%) | 10,942,051.00 |
| Industrial | (5.3%) | 5,292,462.50 |
| Railroad | (8.4%) | 8,464,847.00 |
| Dominion of Canada and Provincial | (4.3%) | 4,343,098.00 |
| U. S. Government | (35.6%) | 35,897,477.13 |
| **Cash in Banks and Offices** | (1.6%) | 1,659,262.18 |
| **Interest, Net Premiums and Other Assets** | (1.2%) | 1,231,480.82 |
| **NET ADMITTED ASSETS** | (100%) | $100,904,311.90 |

## LIABILITIES

| | | |
|---|---|---|
| **Reserves on Policies** From this Fund, increased by Premiums and Interest Earnings, all policies are payable when they become claims. | | $ 77,366,791.64 |
| **Death Claims Due and Unpaid** | | None |
| **Policy Claims** Matured Endowments and Other Claims in process of payment. | | 550,510.16 |
| **Present Value of Death, Disability and other Claims payable in Installments** | | 7,433,621.68 |
| **Reserve for payment of Taxes** | | 142,587.13 |
| **Reserve for Miscellaneous Obligations** This includes dividends left on deposit with the Society and various other obligations. | | 6,076,068.17 |
| **Funds Assigned for Future Distribution** Dividends to be paid living policyholders. | | 1,250,477.20 |
| **Total Liability to Policyholders and Others** | (100.0%) | 92,820,055.98 |
| **Unassigned Surplus** Amount Society has in Reserve in excess of amount required to pay all normal obligations. | (8.7%) | 8,084,255.92 |
| **TOTAL** | | $100,904,311.90 |

OVER $280,000,000 OF LIFE INSURANCE IN FORCE

# CENTRAL LIFE ASSURANCE SOCIETY

**(MUTUAL)**

**Home Office** **Des Moines**

★ ★ ★ ★ ★ ★

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# "Lubri-tection"!*

**They know that's the word for the job Phillips 66 Premium Motor Oil does for trucks and tractors!**

Sure as shootin'—lubrication *plus* engine protection means what you get in every can of Phillips 66 Premium Motor Oil . . . "Lubri-tection."

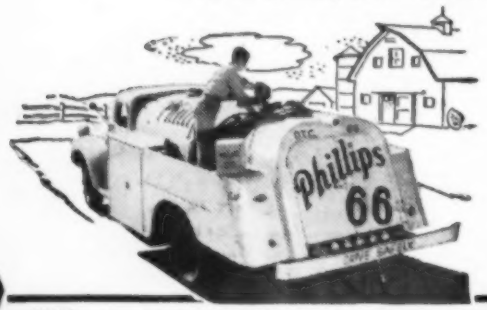
And there's a mighty good reason for that name. The lubricating qualities of this oil are excellent to start with. Because we start with fine crudes. Then to these fine lubricating qualities we *add* the protection of compounds that fight sludge and varnish.

That's a mighty hard combination to beat! Ask your Phillips 66 dealer or tank truck salesman about Phillips 66 Premium. He'll tell you there's a reason why the popularity of this great oil has grown by leaps and bounds!

**"Lubri-tection"—the protection rendered by an oil of fine base stock containing special detergent and oxidation inhibiting ingredients.*

**PHILLIPS 66 PREMIUM MOTOR OIL**

**Worth Looking Into—PHILLIPS 66 TRACTOR TIRES!**




Your Phillips 66 Dealer or tank truck salesman can now supply you with high-quality Phillips 66 Tractor Tires. Talk to him about this latest addition to the famous line of Phillips 66 farm products.

**WHO**—*Des Moines "Phillips 66 Barn Dance" 9:00-9:30 P.M. Saturday*

**Heavy Snow** adds to women's chores, too. Carol Quinn moves a drift from door of Carl Quinn home, Jasper county, Iowa. High-hill location of house invites the white stuff to pile up.

# SERVICE BUREAU

*The Sign of Protection*

## Is Farmer Liable To Hired Man?

**To the Editor: My hired man was kicked by one of the cows while he was milking. Am I liable for damages as owner of the cow?—M. M., Fremont County, Iowa.**

You are not liable. The only case where you, or any farmer, would be liable is where the injury is thru a specific negligence of your own, or where the danger was known to you and you failed to inform the employe.

## Son Is Eligible For Bonus

**To the Editor: My son chose to stay in the navy after the war. Does he qualify for the Iowa veterans' bonus?—Mrs. N. F., Ringgold County, Iowa.**

Yes. Those eligible for the bonus include every person, male or female, who served on active duty in the armed forces of the United States between September 16, 1940, and September 2, 1945, and who was a legal resident of the state of Iowa at the time of entering service, and who had maintained such residence for six months immediately prior.

Discharge must be honorable. Those remaining in the service are also eligible.

## State Won't Take His Home

**To the Editor: I would like to apply for old-age assistance. Must I turn over my home to the state? Or can I deed it to my children before I apply? Must my children help to support me?—A. R., Sac County, Iowa.**

You don't have to "turn over" your home to anybody to get old-age assistance. But the state does take a lien on it for the amount of assistance given. This lien is exercised only after your death, or if you sell the house.

Owning real property won't keep you from getting assistance, unless the assessed value, less recorded liens, is more than $2,000 if you're single, or $3,000 if you are married.

You won't be ineligible to receive assistance just because you have sold some property sometime in the past. But if the state finds that you or your spouse have disposed of the property to make yourselves eligible for assistance, you're out of luck.

Parents and children are legally responsible for the support of the applicant. But if they're unable to give full support, assistance may be given to make up any deficit.

Application for old-age assistance should be made to your county department of social welfare. This department determines your eligibility.

## Can He Use Trees In Reservation?

**To the Editor: We own a patch of timber that is in the forest reserve. What can we take out of it for lumber and posts?—A. K., Clayton County, Iowa.**

We assume that your property is classified as a forest reserve under the provisions of Chapter 161 of the Code of Iowa. Here is what that chapter says, in part:

161.3—". . . A forest reservation shall contain not less than 200 growing forest trees on each acre."

161.4—". . . Not more than one-fifth of the total number of trees in any forest reservation may be removed in any one year, except where trees die naturally."

161.9—". . . When any tree or trees on a fruit-tree or forest reservation shall be removed or die, the owner or owners of such reservation shall within one year plant and care for other fruit or forest trees in order that the number of such trees may not fall below that required by this chapter."

# FEEDING FACTS by the "Old Timer"

*John Haberkorn, President of Viking Laboratories, Inc., is known far and wide as "The Old Timer" in mineral feeding.*

Visited the Iowa Hereford Show and Sale, Jan. 24 and 25. Dean Kildee of Ames and Sam Marting of Ohio had a big job judging the animals before the sale. I've enjoyed seeing this sale grow from 50 head in 1939 to 319 head this year . . . and all of them carefully sorted by J. C. Holbert. Herefords sold 3 at a time and some brought as much as $1,070.

**Sure seems as if good animals are in demand and bring good prices. There has been a big improvement in the quality of Iowa Herefords, and by golly we are sorta proud because we feel we've had a part in helping Iowa breeders with their mineral feeding problems.**

*Our friend Lyman Meyer had some very good Herefords in this sale. Lyman has been a leading breeder and feeder for many years and we've been supplying him with VILAK ever since we started making it.*

Mr. Schnell from North Dakota made a fine speech at the banquet Sunday night before the show. We need more men like him . . . he's a real inspiration.

Hubert Haley of near Walker, Iowa, had several young Herefords at the sale. Hubert started as a 4-H boy in Illinois and has done very well.

**It's been a real pleasure to see the way folks are requesting the "Old-Timer's" book, "Good Breeding and Feeding." We'd like to send a good many more. There is a copy here for you (no charge) so put that post card in the mail today, with your name and address. Or if you have some news for the column, or a question on feeding—send me a note—I'll have an answer back to you right quick.**

*Someone around the office said that livestock suffers less in severe cold weather if they are fed VIKING VILAK regularly. And that's true because VILAK helps keep the blood stream functioning properly at all times. And ALL farm animals LIKE and NEED VILAK.*

Virtus Wiese, Clinton County, not only feeds VILAK, but in addition to his farming has *sold* VILAK for 10 years. He says he has never seen nor used a better mineral supplement.

*Since beef cattle are 18 per cent protein and 4.5 per cent mineral it just makes good sense to supplement your corn (which is 9.6 per cent protein and 1.4 per cent mineral) with a good mineral . . . and a good mineral must be properly balanced. That's why we've been so particular about the content of VILAK.*

Martin Hanenberger writes that he is working hard in Minnesota and N. W. Iowa to supply all his VILAK customers. Carl Doll is doing a fine job in Illinois. And Merle Buesking has passed up a number of other offers to stay with us because he says he's never handled any other mineral that gives results like VILAK.

***Manganese** is one of the much talked* about "trace minerals" which has long been an important part of VIKING VILAK. It has been found that a deficiency of manganese results in slow growth, affects lactation, results in reproductive troubles and affects virility in both males and females. *VILAK helps your stock get the right amount of this important mineral.*

*If you folks have any questions or news you'd like to see in my regular column, I'd like to hear from you.*

*The Choice of Profit-Minded Feeders*

**VIKING VILAK**
**MINERAL SUPPLEMENT**

VIKING LABORATORIES, INC., Des Moines, Ia.


# New Research Farm Planned

IN THE future, you will hear more and more about a place called the Ankeny Field Station. That's the name of a new Iowa State College experimental farm for the study of livestock and poultry breeding.

The college got a 1,400-acre tract from the War Assets Administration about two years ago. It was a part of the Des Moines Ordnance Plant, in Polk county.

Lack of funds has prevented much progress on the research program to date. However, some hog breeding research is already under way.

The college estimates that $646,850 will be needed during the project's first six years. This would be used to erect buildings, purchase equipment and breeding stock.

It is estimated that such things as feed, help and so on will require another $45,000 a year, once the program is in full operation. That allows for federal aid and income from sales of animals.

**Present plans call for devoting 600 acres of the land to beef cattle breeding research. A basic herd of 100 beef cows and 15 bulls would be kept.**

The dairy cattle research herd would be given about 280 acres of the tract. Another 15 bulls and 160 milk cows would be kept.

Hogs will get 280 acres of the total. The research men want facilities to raise 200 spring litters and 100 fall litters.

The poultry breeding unit of 260 acres is divided into land for chickens and for turkeys.

Each unit will have its own buildings, and residences for part of the permanent help. However, a central farm service unit will provide feed and farm service for the whole area. Personnel would do the actual farming, feed grinding and similar work.

More closely controlled nutrition experiments and disease and parasite studies will continue to be carried on at Ames. Research done at Ankeny will be strictly "breeding" research.

## New Wrappings For Locker Meat

Use of the newer wrapping materials, such as aluminum foil, cellophane-laminated paper or pliofilm, for locker storage of meats is recommended by P. T. Ziegler, University of Pennsylvania.

Studies show them to be superior to ordinary "locker" wrapping paper in keeping meat.

"And with this seat, you get these pills to keep you from falling asleep."


# THE NEW IH LOW WHEEL GRAIN DRILLS

## SEED WITH SPEED AND ACCURACY

Here is the new IH Model M low-wheel grain drill—seeding 5½ acres of grain per hour.

The companion line of Model MF fertilizer grain drills resembles the Model M. But the MF has a large-capacity divided hopper with one side each for fertilizer and grain. The separate drive of the fertilizer mechanism can be set to deposit 30 to 1,135 pounds of commercial fertilizer to the acre!

These two models of the new line of IH drills are built for fast precision seeding of practically any size or kind of seed. The Model M and Model MF each has an all-steel frame of welded construction. That gives the backbone of strength to work behind a tractor at today's popular speeds, as a single unit or in multiple hitches. The 6.00-16 tires give these drills flotation on soft seedbed. That helps you get the seeding depth you want; also results in power-saving lightness of draft. Bearings are pressure-lubricated and well protected from dust.

These new IH drills are furnished with the type of furrow openers desired, and with fluted or double run feed. See your IH dealer for full information on the size of Model M or MF drill equipped exactly to suit your needs.

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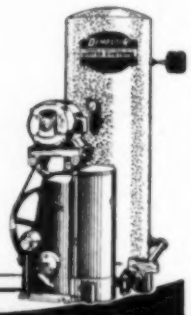
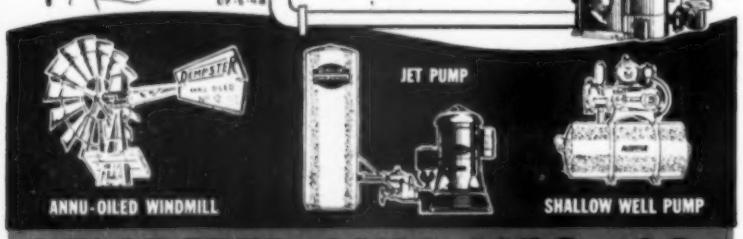


DEEP WELL PUMP

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FAST, POWERFUL LIFTING

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Easy to attach or detach. Hydraulic control stops and starts loader any distance from ground.

***Such Features as***

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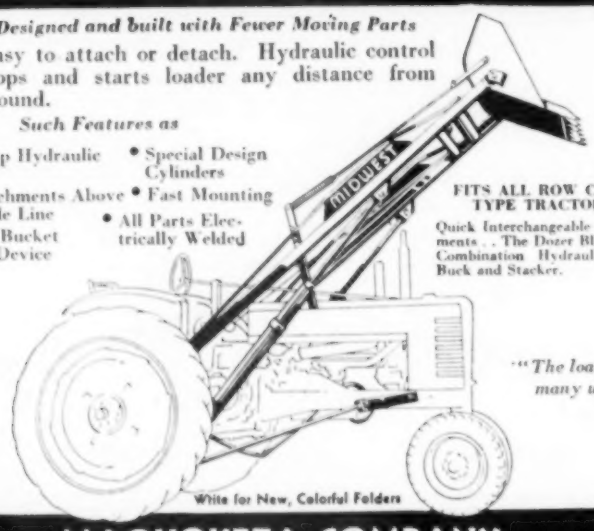


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*"The loader of many uses"*

Write for New, Colorful Folders

MAQUOKETA COMPANY
MAQUOKETA 3, IOWA

**Last Summer** Young Dale Leonard, of Dallas county, Iowa, did quite a lot of custom spraying in his neighborhood. The picture shows him using DDT for the control of corn borers.

# Chemicals Helping Control Pests

*Farmers Expect To Boost Use Of Many New Chemicals In War Against Insects*

ONCE it may have been true farmers were slow to change, slow to accept new things. It's not true today. The huge and rapid increase in the use of new agricultural chemicals proves that Iowa farmers are quick to adopt new ideas and new practices which are sound.

Power sprayers on farms three years ago were few and far between. Today, 27 per cent of Iowa farmers own power sprayers, according to replies in a recent survey of 650 farmers.

**Wallaces' Farmer and Iowa Homestead asked these farmers to answer several questions in a recent mail survey. Seventy-three per cent reported they didn't own sprayers.**

Of the 474 who did not own sprayers, 151, or almost one-third, reported they intend to buy one this year.

About 27 per cent of the group hired some custom spraying done either for crops or fly control in 1948.

But, without saying whether spraying was to be hired, or done by themselves, 68 per cent of the farmers reporting said they definitely intend to spray at least some of their buildings for fly control this summer.

Questions concerning plans for controlling grasshoppers and corn borers had to be based on the possibility of serious infestation. So those questions read like this: "If corn borers are serious on your farm in 1949, do you plan to spray with DDT or one of the other chemicals?"

In reply to that question on corn borers, 418 farmers, or about 65 per cent, said yes; about 5 per cent more were in the "maybe" category.

Almost the same number, four more in fact, said they planned to use chemical control if grasshoppers got serious, and again about 5 per cent were in the "maybe" group.

Altho the majority of farmers in Iowa do not usually produce alfalfa or red clover seed, some of them evidently had tried an agricultural chemical for bug control in boosting seed yields.

Seven per cent of them said that they definitely planned to use chemical insect control as a means of boosting legume seed yields in 1949.

The 650 farmers who answered the questions in the survey had used a wide variety of agricultural chemicals, and a still wider variety of brands, for control of insects.

They had used DDT, BHC (or benzene hexachloride), lime-sulphur, Blackleaf 40, chlordane, chlorophene, toxaphene (or chlorinated camphene), rotenone, arsenate of lead, poison bran, Bordeaux mixture, sodium fluoride, and kerosene and crankcase oil.

**The list of insect pests against which these chemicals had been used was a long one. It included flies, army web-worms, lice, mange, grasshoppers, potato bugs, mites, grubs in cattle, worms in hogs and other less common pests.**

Not everyone understands fully the uses to which all the chemicals offered for sale can be put. It would be almost impossible for a farmer to keep up with that and get any work done.

However, mistakes can sometimes be expensive, even if not serious enough to cause huge losses. For example, one man reported spraying quack grass with chlordane. Chances are his money was wasted, tho he may have done no particular harm.

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- FLAME-SEALED AGAINST RUST
- PIONEER KNOT RESISTS BUCKLING

The life of your fence depends on its resistance to rust and on its ability to stand up. Continental fence, made of copper steel with a heavy, uniform zinc coating, is the *only* fence *Flame-Sealed* for *extra* protection against rust. The semi-flexible *Pioneer Knot* withstands the crowding of livestock . . . it "gives" slightly under pressure, then comes back straight. Continental fence is made stronger to last longer. See it at your dealer or write us at Kokomo, Indiana.

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FOR SALE—COMBINE UNLOADING AUGERS to fit Baldwin, Oliver 30, Minneapolis Moline G1, 2, 3, 4, John Deere 17, Case K12 and A6, McCormick-Deering No. 122, 123 and 125. This is the fastest and newest auger on the market. V-Belt Conversions for No. 122, SP123 and SP125 McCormick-Deering Combines. Also Auger Grain Elevator with hopper, three-wheel carriage, nothing like it. Write

BRIDGEPORT EQUIPMENT CO., INC.
BRIDGEPORT, NEBRASKA


# QUIPS AND QUOTES

**GREAT MINDS** discuss ideas. Average minds discuss events, and small minds discuss people.—Correctionville News.

**THE GIRL** who says she will never marry the best man on earth is probably nearer the truth than she suspects.—Gowrie News.

**WOMEN** who swear they've never been kissed can't be blamed for swearing.—Lake Mills Graphic.

**MARRIAGE** brings music into a man's life. He learns to play second fiddle at home.—Guthrie Center Times.

**BUSINESS** and government are to be teamed up in the interest of prosperity. Business is convinced, however, that it will get the short end of the double-tree.—Webster City Freeman-Journal.

**A COMMITTEE** has been defined as a group of people who keep minutes and waste hours.—Mason City Globe-Gazette.

**AGRICULTURAL** scientists reveal that some 50 gallons of water are required to produce one ear of corn. However, many public speakers frequently come up with a lot more than that just on one pitcher. — Algona Upper Des Moines.

**LOBBIES** have proved so effective for special groups, one wonders why the public doesn't get one.—Mason City Globe-Gazette.

**IT ISN'T** the hours you put in—it's what you put in the hours.—Spencer Times.

**THERE'S NO** such thing as an idle rumor. They're always busy.—Colfax Tribune.

**A CHICAGO** internal revenue officer was robbed of $9,000. Probably some fellow who got in a hurry for his refund. — Danbury Review.

**THE MALE COW** is called a bull, and is lassoed on the plains, and fought for south of the border, and shot in the classroom.—Iowa Agriculturist.

**AN OLD-TIMER** is one who remembers when he could hear sleigh-bells without turning on the radio.—Audubon Advocate.

"He's waiting for push-button farming."

RELY ON HI-V-I WINTER AND SUMMER

HI-V-I has proven its dependability on the farm, where the going is tough! Any farmer who has used HI-V-I in truck, tractor or car motors, knows that it gives instant lubrication, in February or July. HI-V-I is your key to easier starts, smoother performance and less engine wear in all farm machinery. It cleans as it lubricates . . . it saves on oil costs . . . change to HI-V-I today!

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—START SAVING NOW THE EASY U. S. SAVINGS BOND WAY—

# Homemaking Department

*Edited by* **ZOE MURPHY**

**Center Point school, Linn county, Iowa, serves a fine lunch at noon for 25 cents, or the students can buy a weekly ticket for a dollar.**

## *Shortcake At Noon!*

THE schools of many small towns in Iowa are their largest industry—both in the number of people who are concerned and in amount of money handled.

There is one angle of this Big Business that goes thru the administrative offices which is comparatively new. It is handled quite independently from the other school funds. That is the modern plan of hot lunches.

Many farm people can remember the arguments which arose over furnishing a glass of milk a day or a bowl of hot soup at school.

**The home-packed pint jar, to be heated in a pan of water, or the one-dish dinners prepared by mothers, were a step in the right direction, but they were a far cry from today's balanced menus.**

There was a growing realization that the children in the schools did better work and contracted fewer contagious diseases when they had a hot lunch at noon. Government surplus foods, and a little money, pushed the idea along. Local women, who were hired to relieve the burden upon the home economics teacher, made the plan possible in its present self-supporting form.

Many of these local women plan the menus for the lunches and do the buying very successfully. There are state and federal aids, charts, sample menus and suggestions to help the women who supervise the work.

In Mechanicsville, a Cedar county town of 850 people, the hot lunch plan in the consolidated school is a going concern. Careful management is required in order to do this. Mrs. Eloise Martinez, an Iowa State College trained home economics teacher, plans the menus, does the purchasing and has supervision over the high school girls who assist in serving the lunches.

**Mrs. Ed Henkle, Mrs. Iva West and Mrs. Leila Workman prepare the lunches and handle the kitchen work. The girls serve the children up to fifth grade. Above that, a self-serve system is used.**

Here's a recipe that Mrs. Henkle uses to make a popular shortcake with a peach-half or thickened cherries on top, and whipped cream: Nine cups flour, three tablespoons baking powder, one and one-half teaspoons salt, one and three-fourths cups butter, four cups sugar, one and one-third teaspoons vanilla, six or seven eggs, three cups milk. The children love it!

Mrs. Martinez uses the seven basic essentials in her meal planning — milk; vegetables; fruit; eggs; meat, cheese, fish or legumes; cereal, or bread and butter.

A favorite menu is mashed potatoes, meat loaf, buttered beets, buttered Parker House rolls and fruit cup. An appetizer of orange juice or grapefruit juice is provided in paper cups as the children enter.

**Try sending your child to a restaurant at noon with 29 cents in his pocket, to buy a lunch—just because he doesn't like buttered beets!**

On down the Lincoln highway from Mechanicsville, Stanwood serves about 100 children at 25 cents for younger ones and 30 cents for older. Mrs. Leah Flockhart and Miss Lucille Burgess are the women in charge. Due to lack of space, tables are set up in the wide halls for serving the lunch.

From a beautifully clean kitchen, Clarence serves a 25-cent lunch on a two-week meal ticket, or 30 cents for a single ticket. With six years of experience back of her, Mrs. Ira Long does the menu planning and the buying. She is assisted by Mrs. Charles Horn and Mrs. Chris Kline.

Mrs. Long, as others who do a successful job, shops in person, buys in case lots and in large quantities, on a two-week basis. She and her helpers make their own cakes and cookies. (And what applesauce cake!) High school girls help to serve and pick up trays.

The cooks in the school at Clarence have found that a locker full of beef is a great help. The beef is mostly ground up into hamburger, which makes hot beef sandwiches and meat loaf. The bones are used in preparing soups. Mashed potatoes are favored—especially when they are served with dried beef or hamburger gravy.

**These cooks report that children often eat foods in the school groups which are scorned at home. Raisins served in paper cups "go good," in Clarence.**

Wyoming, in Jones county, is served by two sisters, Mrs. Kate Gerdes and Mrs. Laura Curry. More fortunate than most schools in its set-up, Wyoming has special space for hot lunches. The women do not have to work in the class-room kitchen. An abandoned gymnasium was turned into a shop, and the shop space made the lunch quarters.

In Center Point, Mrs. Hattie Rogers is head cook. She plans the menus and does the shopping. She has two women to help her, and high school girls clean up the dining-room tables, altho everyone cleans his own plate. Center Point manages on 25 cents a day, or $1 for a week ticket.

The pay to local women ranges from 40 cents an hour to $5 a day. Time ranges from designated hours to a schedule of 8 a. m. until the work is done.—E. C. W.

**The lunches which are served to the students in the Mechanicsville school, in Cedar county, Iowa, are hot and appetizing.**

# COUNTRY AIR

*By* ELIZABETH C. WHERRY

THERE have been four cats in my life. Lots of dogs, but only four cats—feline variety. I'm not much authority on the human variety. I'm too slow to catch the swift, barbed remarks, even when they are directed at me.

* * *

Of the feline variety, the first cat in my life was Mr. Winkleman. He was a tiger-striped kitten with a mahogany-colored nose and a boiler-factory purr.

* * *

For many years, I had lived in dormitories or with a houseful of girls, and so my first winter on the farm seemed lonely. The man of the house picked out this mahogany-nosed cat from a barn litter for a pet to keep me company.

* * *

**We named him Mr. Winkleman after a Dutch explorer in one of Stuart Edward White's African yarns. We were reading the story aloud at the time, and the sound of the Dutchman's name pleased our fancies.**

* * *

The fourth cat is Mittens. He really isn't my cat. He merely adopted me when his own family went on a month's vacation last summer.

* * *

With characteristic disregard, he elected to ignore the boy who was to take care of him and feed him his special food. Instead, he chose the questionable delights of panhandling. He stopped at every house in the block, begging for food and attention.

* * *

Gradually, he made my house the most frequent stop. I wasn't especially flattered. I understood. After all, I was the only one on the street who was feeding him 20-cent homogenized milk.

* * *

But I did let him in the house when he meowed plaintively. And when the weather grew cool, I fixed him a box in the basement. He didn't think much of this arrangement. After all, couldn't he sleep on the couch just as well? He didn't mind.

I remained firm. Either you go home, Mittens, or you lie in the bed I make for you.

* * *

**He refused to go home, and has spent the winter training me in the ways of foster ownership. Always a gentleman about it, he, too, has been very firm.**

* * *

I am not sure whether he is a Boston alley-cat or a Boston Brahmin. He came to the door of a Boston woman who is a friend of my neighbor. She loved him and sheltered him, but a big cat in a Boston apartment is a problem.

* * *

Later, he flew to Detroit with her, where he was transferred to the hands of the woman who later became my neighbor — and who went on the long summer vacation.

* * *

He's a woman's man and a man-hater. He skirts a man caller with baleful black slits in his green eyes.

* * *

**But let a woman caller sit down in an easy chair and he comes smiling and purring. He waves an ingratiating tail and with one well-directed leap lands in her lap.**

* * *

When he tires of my plain fare and homogenized milk and decides to call upon other friends, he walks directly in the middle of the sidewalk, looking neither to right nor left. His white mittens could well be pearl-gray spats, and if he carried a cane, he'd swing it with stately dignity.

* * *

I'm going away for a little while, and he's going to have to go home where there is a bulldog, aptly named Rascal, and a three-year-old boy who doesn't understand the importance of Back Bay ancestry.

* * *

Mittens' tail will wearily register scorn of anything so plebeian as boys and puppies. And his green eyes will be cold and reproachful.

Robin Hood

Quick Butter-Fluff Rolls

Recipe by Rita Martin

2 cups buttermilk or sour milk
¼ cup sugar
½ tsp. soda
2 tsp. salt
¼ cup melted shortening
1 cake compressed yeast or 1 package granular yeast
Soft butter
2 tbsp. lukewarm water
4½ cups (about) sifted ROBIN HOOD ENRICHED FLOUR

METHOD

SCALD—milk, add sugar, salt, shortening and soda; cool to lukewarm.
LET—yeast stand in lukewarm water for 5 minutes, add to milk mixture.
ADD—flour to make a soft dough. Knead until smooth.
ROLL—dough out to ½" thickness; cut in strips about 1½" wide.
SPREAD—strips with butter and make layers of three; cut in 1½" pieces and place, cut side down, in well-greased muffin pans.
BRUSH—tops with melted shortening.
COVER—and let rise in a warm place until doubled in bulk.
BAKE—in a hot oven (425° F.) for 15 to 20 minutes.
YIELD—3 dozen small rolls.

They always praise my baking now that I'm using Robin Hood

—says Mrs. Perry Meyer, Shelocta, Pennsylvania

"I have been using Robin Hood Flour for some time now," says Mrs. Meyer, "not only for baking bread but for making cakes and pastry, too. It's just wonderful. I get a big hand from my family for the things I bake."

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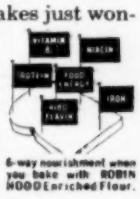


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*The Folger Flavor is so extra rich, you are urged to try using one-fourth less than of lesser flavored brands.*

THERE'S A MOUNTAIN OF FLAVOR IN EVERY SPOONFUL


# *Swedish Cooking Is Delicious*

### Favorite Recipes Were Tucked In With Other Treasures When Women Came To America

DELICIOUS is the word for Swedish cooking. When the women packed to migrate to America, they put in with other prized items some of their most-loved recipes. And, while they have adopted our foods, we, in turn, have learned to enjoy their flavorful dishes.

Many of the happy memories of her girlhood days which are treasured by Sigrid Thornwall, of Polk county, Iowa, are associated with the good things her mother made.

**Saturday afternoons, when Sigrid came home from work, the tempting fragrance of baking beckoned her out to the kitchen, where her mother would have two baking boards heaped with Swedish breads and cookies, still warm from the oven.**

Rye bread was formed into round loaves without a bread pan and popped into the oven on a peeled white birch paddle which Sigrid's father had made especially for this purpose. It worked like the long-handled forks that bakers use to slip their pies into huge ovens. Baked in this way, the loaves will come out crusty and brown.

#### SWEDISH RYE BREAD

Eleanore Kimberley, also of Polk county, remembers her mother's recipe for rye bread because her father much preferred it to any other kind of bread. It, too, was baked in crusty brown loaves like the bread that Sigrid Thornwall remembers so well.

Here's how it's made:

**1 quart buttermilk or sour milk**
**1 teaspoon soda**
**1 pint water**
**2 tablespoons shortening**
**½ cup sugar**
**2 tablespoons salt**
**½ cup medium dark molasses**
**6⅔ cups rye flour**
**7½ cups white flour**
**2 cakes compressed yeast, dissolved in ½ cup warm water with 1 teaspoon sugar**

Put water, shortening, sugar, salt and molasses into a sauce-pan, heat until all is melted. Put buttermilk into a large bread-mixing bowl. Add soda, then add the hot liquid mixture. Mix well, add rye flour, then add yeast (which has been dissolved). Add the white flour.

Knead in with hands until thoroly blended. Let rise until double in bulk (about two hours). Turn onto floured board, knead, shape into loaves, using enough flour to keep from sticking.

Put in greased loaf tins and let rise until double (about an hour). Bake in a medium-hot oven for 50 to 60 minutes.

Fennel seed may be worked into the dough for a delicious variation. Cardamon seed may also be used. Eleanore's family likes this bread especially well when it is toasted. And, for a special treat, a mixture of molasses and water is poured over the top of the loaves before they are baked.

#### SWEDISH COFFEE CAKE

Mrs. Kimberley's mother, like so many other Swedish cooks, had a special way with rolls and coffee cake. Any time is coffee time in a Swedish community. And the food that goes with a cup of good coffee is important. This is Mrs. Kimberley's favorite recipe for coffee cake:

**4 eggs**
**½ cup sugar**
**½ cup butter, melted**
**1 cup raisins**
**½ cup citron, cut fine**
**2 cups sifted flour**
**1 tablespoon baking powder**
**¼ teaspoon salt**
**1 teaspoon ground cinnamon**
**½ cup chopped nuts**

Beat eggs and sugar until very light. Add butter, raisins and citron. Sift flour, baking powder, salt and cardamon together three times and add to first mixture. Blend thoroly.

Divide dough in half and make into two pretzel shapes. Place on a buttered cooky sheet. Brush the top with beaten egg, sprinkle with sugar and finely chopped nuts. Bake in a 350-degree oven about 30 minutes. When cool, slice in about one-inch widths.

#### SWEDISH COOKIES

Wherever and whenever a cup of good Swedish coffee is served, then there must be cookies, too. Swedish cookies come into their own during the holidays, but are enjoyed thruout the year.

Frostings on rolls, cookies and coffee cake were an every-day

## *SHARE YOUR RECIPES*

**Every family has its own favorite recipes. They may be ones that you have worked out yourself. They may be recipes that your mother used when you were young. You may have a recipe for a filling hot dish, or for a special dessert, which your family likes best.**

**Would you like to share your special recipes with other farm women? If you would, send them in to us. We will pay ONE DOLLAR for every recipe published.**

**Address your letters to the Homemaking Department, Wallaces' Farmer and Iowa Homestead, 1912 Grand Ave., Des Moines, Iowa.**

"I didn't plan a place for knick-knacks when we built our house," said Mrs. Wayne Ogren, of Sac county, Iowa. "But they do dress up the walls." Janice Ogren stands by a vase.

habit at the Kimberley house—not reserved for special occasions or for company. Here are three recipes that the family likes best of all.

### SPRITZ COOKIES

**1 cup butter**
**1 cup sugar**
**3 egg yolks**
**1 teaspoon baking powder**
**2½ cups sifted flour**
**1 teaspoon almond extract**

Cream butter and sugar. Add egg yolks a little at a time. Add flour and baking powder sifted together. Press mixture thru a spritz cooky press onto an ungreased cooky sheet.

Different shapes may be formed—such as bows, circles, ribbons, the letter "S," etc. Bake in a 400-degree oven for from 10 to 12 minutes.

### PEPPAR KAKOR

**(Ginger Cookies)**

**1 cup butter**
**1½ cups sugar**
**1 tablespoon syrup**
**2 teaspoons soda**
**1 egg**
**3¼ cups flour**
**3 teaspoons each of cinnamon, ginger and cloves**

Mix in the order given. Roll out and cut. Bake in a moderate oven.

### KLENOR

**(Swedish Cookies)**

**4 tablespoons sugar**
**4 tablespoons sweet cream**
**2 whole eggs and two yolks, well beaten**
**½ teaspoon baking powder**
**Enough flour to make a soft dough**

Roll out (not too thin), cut into shapes, and fry in hot lard.

### OTHER SWEDISH RECIPES

There are other recipes which Mrs. Thornwell got from her mother. Stuffed cabbage is especially good for a winter meal. If you have plenty of milk, you might like to try Ostkaka, and for peppermint lovers, there is a recipe for Swedish candy.

### KALDOLMAR

**(Stuffed Cabbage)**

**1 large head cabbage**
**2 pounds beef and pork ground together**
**1 small onion**
**1 cup cooked rice**

Mix these ingredients and salt and pepper to taste. Steam cabbage in kettle of hot water, so that leaves are easily separated. Form meat into balls and wrap a cabbage leaf around each one. Put in a baking dish and bake in the oven. Baste often.

### OSTKAKA

**2 gallons whole milk**
**2 tablespoons flour**
**¼ cake rennet**
**6 eggs**
**Sweet cream**
**½ cup sugar**
**Pinch salt**

Mix the flour in a little milk, then add to the rest of the milk. Add rennet and let stand till thick. Stir, and drain off all the whey. Add the eggs and as much sweet cream as eggs. Add sugar and salt. Bake in a slow oven.

### PALKA-GRISAR

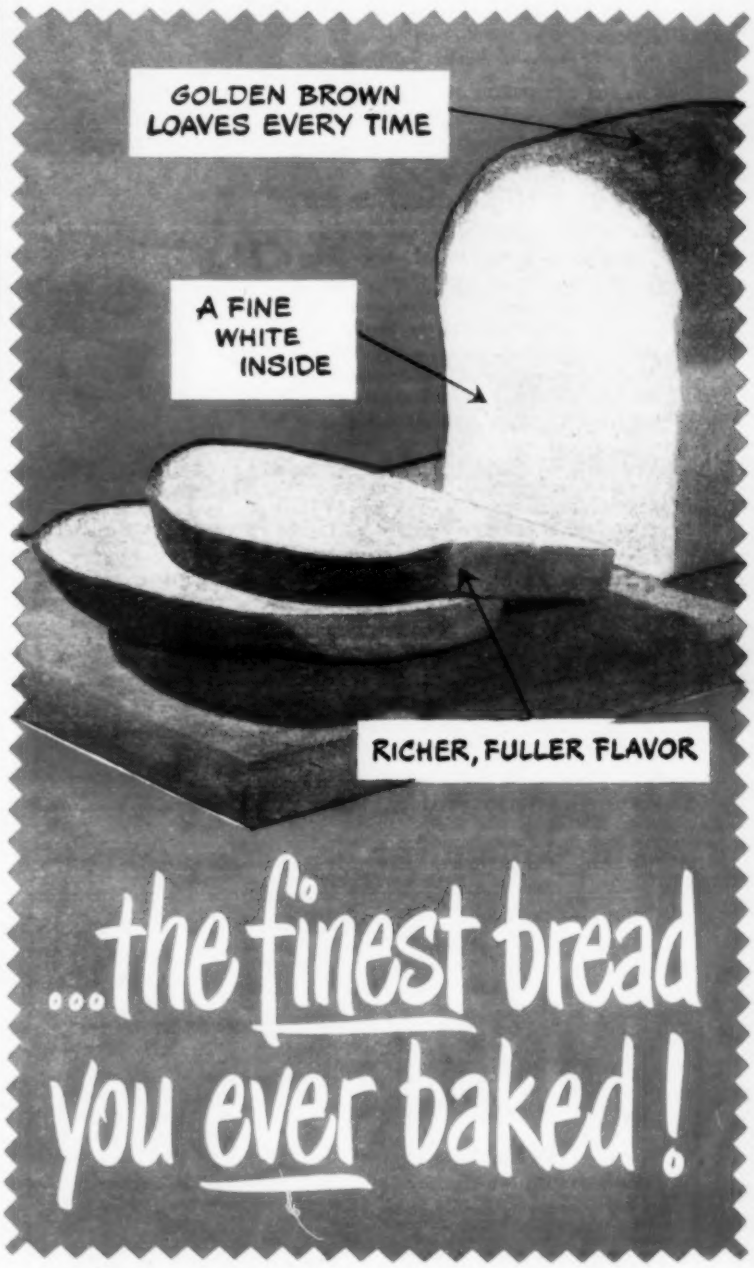
**(Swedish Candy)**

**2 cups cane sugar**
**1 cup water**
**1 dessert spoon vinegar**

Boil until brittle when tried in cold water. Pour into buttered skillet, except two tablespoonfuls, to which add five drops red coloring. Cool in cold water and make a small ball. Keep warm.

When candy in skillet is cool enough to handle, pull. Pull some more and add five drops peppermint oil. Pull again until white. Take red ball and wind around four times lengthwise. Pull lengthwise the size you want the candy. Cut crosswise with scissors.—Mrs. Mary Bullard, Story County, Iowa.


OUTSIDE AND INSIDE...

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# Personal Problems

### BABY-SITTING

DEAR LUCILE: What do you think of baby-sitters? Mother, who doesn't live near me, thinks it is just terrible that I leave my baby with a girl while my husband and I go out occasionally on Saturday night to a movie in town or to a neighborhood dance with his old high school crowd.

She said when she was raising us that if she couldn't take us along where she was going, she stayed at home.

I think the world of my baby, but I can't feel I'm doing anything wrong in leaving him with a responsible girl, once in a while, so I can get a little change from the routine of the home. We'd like your opinion.—Young Mother.

**YOUNG MOTHER: What do I think of baby-sitters? I think they're wonderful, if used in moderation.**

**I grant your mother her argument—that babies used to be taken along everywhere or their mothers stayed at home.**

There was an occasional get-together of neighbors; Christmas at Grandma's; a Sunday night supper with Aunt Hattie. Take the babies along; put them on the bed, cover them with a coat, and carry them home sleepy and fretting, later.

About all anybody got out of this, as far as I can see, was the fact that the child was near its mother at all times.

Today, young mothers go places where it is much better not to take babies. Movies, for instance. They leave Baby at home in his own bed comfy and cozy, with a girl who likes to take care of him and earn the bit of money she will get—and he's better off.

Mother is free of responsibility for a few hours, and nobody is harmed.

### GIVE HER A DIVORCE

DEAR LUCILE:- We've been married five years, but have never got along well. I'm 39 and my wife is 34. We have no children.

We have a little farm where we have raised and sold berries and chickens. I worked in a factory with my neighbor until I found out that my wife was keeping company with his hired man. The neighbor fired him, and I quit my job, but they still see each other occasionally. She is in love with him and wants a divorce.

Looking back on her nagging, and the heartaches she has caused me, I feel that I should let her go. I'd like to find a woman who has an interest in poultry and berries, and who will help me. Above all, I want one who will like me, and not the neighbor's hired man. What do you advise me to do?—Curley.

**CURLEY: Let this woman go! If she doesn't love you; wants a divorce to marry another man; if you've never got along, and if you have no children, I honestly can't see any point in your trying to hold her—and especially since you don't love her, either.**

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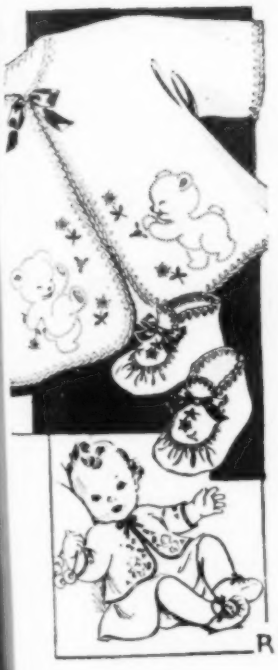
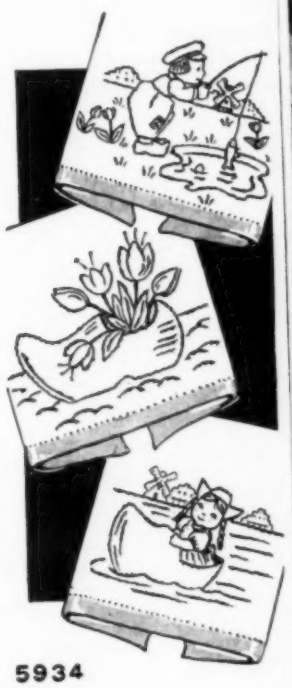
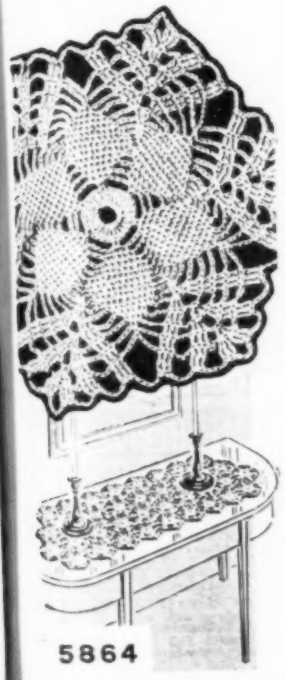



No. R-2211—The dancing honey bears and the tiny flowers make a perfect decoration for this cute set. Easy embroidery and simple-to-sew sacque and booties make your odd minutes fly away.

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# Making a Fire In the Grate

THE fire on the hearth, which can give so much comfort and cheer in cold winter weather must be built with care in order to burn efficiently without waste of wood and heat.

The neat housekeeper, who has her fireplace swept clean of all ashes, is an inefficient fire-builder. Ashes should be kept level with the andirons to provide a bed of glowing charcoal which yields steady heat and helps ignite new logs as they are added.

Familiar as is the term "backlog," not every housewife knows its practical use. Before laying the fire, put one log on the floor of the hearth, against the back wall and behind the andirons. This log keeps the draft from drawing the fire directly into the masonry and wasting heat.

The woodpile for fireplace use may well contain both split and whole round logs, and both soft and hard wood. Split wood kindles faster than round logs, so is the choice for starting the fire. The round logs may be added later to keep the fire going steadily.

**Soft woods from cone-bearing trees like pine in general make a quicker, hotter fire than hard woods, but hard woods have the advantage of burning longer.**

A combination of the two, therefore, makes a successful fire. The woods that give the most heat for their weight are hickory, oak, beech, sweet birch, hard maple, rock elm, locust and long-leaf pine.

Green wood is poor in heat value because of the moisture it contains. From 25 to more than 50 per cent of the weight of green wood is water, depending on the variety. The heat required to drive off the water is lost as far as warming the room is concerned.

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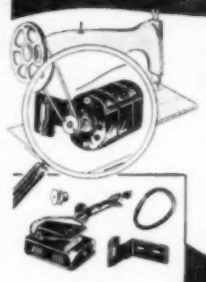

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Then get from your druggist 2½ ounces of Pinex, pour it into a pint bottle, and fill up with your syrup. This gives you a full pint of wonderful medicine for coughs due to colds. It makes a real saving because it gives you about four times as much for your money. It lasts a long time, never spoils, and children love it.

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Pinex is a special compound of proven ingredients, in concentrated form, a most reliable soothing agent for throat and bronchial irritations. Money refunded if it doesn't please you in every way.

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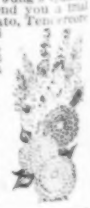

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Hans and Hilmar Schmidt install a water heater in the basement of their Black Hawk county, Iowa, farm home. The complete water system on the Schmidt farm includes a water softener as well as heater.

# COOKERY CORNER

### SCALLOPED EGGS AND MACARONI

6 hard-cooked eggs
2 cups macaroni
2 cups white sauce
Chopped onion to taste
½ cup grated cheese, if desired
1 cup bread crumbs
2 tablespoons melted fat

Make the white sauce by melting three tablespoons fat in a pan, adding three tablespoons flour, and stirring together. Add two cups warm milk slowly, stirring and cooking until thick—either over a very low fire or over hot water. Cut the hard-cooked eggs into quarters. Mix the cooked macaroni with the white sauce. Add the onion, grated cheese and eggs. Pour into a greased baking dish. Mix the bread crumbs with the melted fat and spread over the top. Bake in a moderate oven until the crumbs are brown. Six servings.

### TAMALE PIE

1 pound ground beef
1 large onion, chopped
1 can tomato soup
2 cups water
1 teaspoon salt
¼ teaspoon pepper
1 tablespoon chili powder
1 cup whole kernel corn (drained)
½ cup chopped green peppers

Topping—
¾ cup cornmeal
1 tablespoon flour
1 tablespoon sugar
½ teaspoon salt
1½ teaspoons butter
1 beaten egg
¼ cup milk
1 tablespoon melted shortening

Pan-fry ground beef and onion in skillet until lightly browned. Add tomato soup, water, seasonings, corn and green pepper; simmer for 15 minutes. For topping, sift together dry ingredients. Add beaten egg and milk, stirring lightly until combined. Fold in melted shortening. Place meat mixture in two-quart greased baking dish; cover with cornbread topping. Bake in 425-degree oven for 20 to 25 minutes, until cornbread is browned. Makes six servings.

### APPLE-BANANA CRISP

6 apples
3 bananas
1 cup brown sugar
¾ cup flour
½ cup butter

Peel and slice apples. Oil baking dish and place in it alternate layers of apples and bananas. Blend sugar, flour and butter thoroly. Spread over the fruit. Bake 45 minutes at 350 degrees. Serve warm with cream. — Mrs. Ruth Lienen, Iowa County, Iowa.

### BRAZIL NUT BROWNIES

½ cup fat
1 cup sugar
2 eggs, beaten
½ cup cocoa
½ cup sifted all-purpose flour
¼ teaspoon salt
1 cup chopped Brazil nuts
1 teaspoon vanilla

Cream fat; add sugar, and cream well. Add beaten eggs; blend thoroly. Sift together cocoa, flour and salt; stir in with Brazil nuts and vanilla. Turn into greased 7½x11-inch or 8-inch square pan. Bake in 350-degree oven 20 to 25 minutes. Cool and cut into squares. Yields about 18 Brownies.

### CHEESE FONDUE

6 eggs
2 cups hot milk
2 cups soft bread crumbs
1 cup cheese, sliced very thin
1 tablespoon fat
Salt to taste

Beat the eggs well. Mix milk, bread crumbs, cheese, fat and salt. Stir this mixture into the beaten eggs. Pour into a well-greased, shallow pan and bake in a moderate oven for about 25 minutes, or until set and lightly browned on top. Serve at once. Six servings.


# Good Things To Eat...

by MARY FOSTER

**You'll Like my New basic recipe for your COFFEE CAKES and SWEET ROLLS!**

**YOU DON'T HAVE TO *KNEAD* IT!**

That's right—no kneading required for making coffee cakes and sweet rolls when you use my new recipe. And do they turn out delicious! Try it now for PECAN ROLLS . . . so easy this new way . . . and they always turn out perfectly with Mother's Best Flour. You'll like Mother's Best Enriched Flour for all your baking. No other flour just like it. Works up beautifully. Rises to perfection. And, it has added minerals and vitamins to help build strong bodies. Try it. You'll be delighted with everything you bake, or you get your money back.

*Pecan Rolls are Easy with This Recipe*

2 cakes yeast
¼ cup lukewarm water
1 cup scalded milk
¼ cup shortening
½ cup sugar
1½ teaspoons salt
5 to 5½ cups Mother's Best Enriched Flour
2 eggs well beaten
½ cup melted butter
1½ cups brown sugar
1 cup pecan halves

(1) While yeast softens in warm water (2) scald milk, pour into mixing bowl. (3) Add shortening, sugar, salt—stir to dissolve. (4) Stir in half of flour for thick batter. (5) Stir in beaten eggs and yeast solution. (6) Add remaining flour. Mix well. Instead of kneading, ball up dough on lightly floured towel. Roll to ¼ inch thick. Fold twice to make three-thickness fold. Then fold from end in thirds again—turn smooth side up and place in greased bowl. Cover, let double. (7) While dough is raising, prepare pan for rolls. Cream 6 tablespoons butter with 6 tablespoons brown sugar and a little water to help dissolve sugar. Spread on both sides of 9 inch skillet or baking pan. Sprinkle pecans in pan. Holds about eight rolls. (8) When dough is light, roll into long, narrow sheet ½ inch thick, eight inches wide. Brush lightly with melted butter. Sprinkle with brown sugar and cinnamon. Roll like jelly roll—sealing edge. Cut into slices. Place slices cut-side down. Let rise until doubled. Bake in oven (350°) 25 minutes.

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He drew a pencil mark on the door and then compared it with the last mark. "Holy smoke!" he said. "That cereal must be *loaded* with nourishment. You've grown almost an inch in the last two months!"

"How much is an inch, Daddy?"

Mr. W. indicated an approximate inch on his little finger. Kirk looked disappointed.

"Is that all?" he asked. "Oh well, Grape-Nuts Wheat-Meal tastes wonderful, anyhow." Adv.


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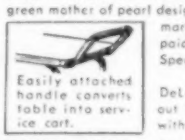

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# Lines from ...Aunt Lib

## *On Being Friendly*

"CHOOSE your friends wisely," we've been told. So-called practical folks take that to mean: Get on the good side of those with plenty of money.

I don't think that farm people are so much that way. We know that the Joneses, with their simple, homey things, can be much better friends all around than can the Smiths, with all their elaborate buildings.

Aunt Lib

But it seems to me that most of the city folks go a whole lot on appearances. Here's a true story, lately told to me by my friend, Peg Bradford, who lives in Philadelphia. It's the case of a cold shoulder that back-fired.

Peg attends a High Episcopal church there. Among its members are many wealthy families of their suburb.

A year ago, a woman stranger started coming to Sunday services. She wore a queer black dress. Her white shoes looked to be badly in need of cleaning. So she went pretty much unnoticed by the women of the church.

But Peg felt sorry to see this stranger left out in the cold. She introduced herself to the woman. The new woman, it seems, had heard of Peg. "My niece is in your Girl Scout troop," she said. And Peg was invited to call.

Peg told the rector of her invitation. "By all means you must go," he urged. "I can't get her to invite me."

At the stranger's home, Peg received the surprise of her life. A maid ushered her into a room filled with all manner of valuable antiques. It seems that this plain woman was a wealthy widow who had moved from California to be near her sister in Philadelphia.

**Friendship between Peg and the stranger kept growing. Peg invited her to her own modest home. And she managed to work it so the rector's wife got acquainted with the woman.**

Once the news got around the membership, all of the society women of the church were dying for an invitation to the woman's home. But she would have nothing to do with them.

She would aid church benevolences. When there was a dinner, she'd help out — by sending her jolly Negro maid. But she'd never join in sociability with the other women of the church. Only with Peg, and the rector's wife.

After a few months, the new woman decided to close up her house for a spell and go to Honolulu. She arranged to make the trip by airplane. And, wanting a companion, she persuaded the rector's wife to go along as her guest —all expenses paid.

"So, see what I missed," joked Peg—but with just a touch of regret in her voice. "When I was the one who got them acquainted in the first place!"


*for those who bake at home...*

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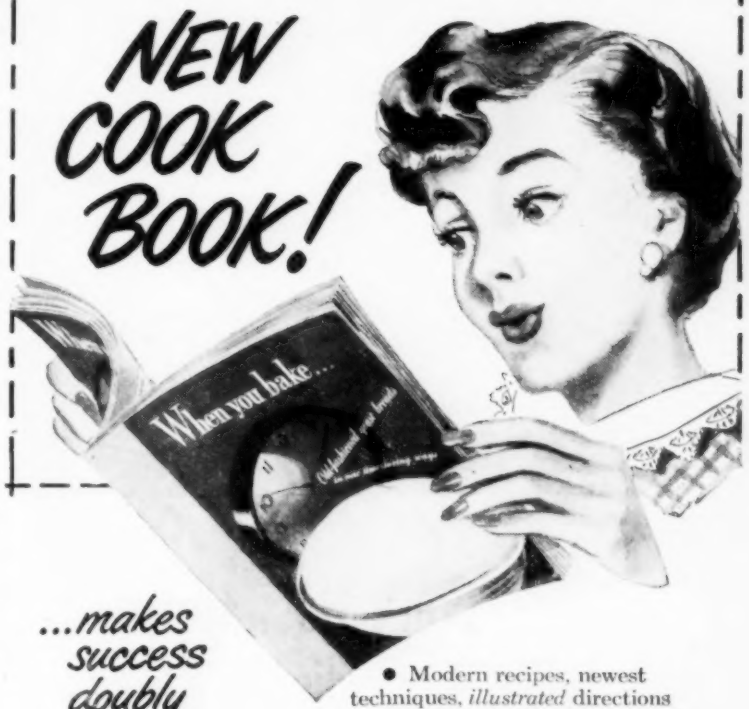


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MY 3 NEW GIANT SUPER ZINNIAS

These SUPER GIANT Zinnias are real beauties. BIG! And they grow anywhere—blooming all summer long. 3 packets: 1 yellow, 1 orange, 1 red. All for 3c stamp. Will also send along my new seed and nursery catalog, and FREE subscription to my magazine "SEED SENSE". Send stamp TODAY

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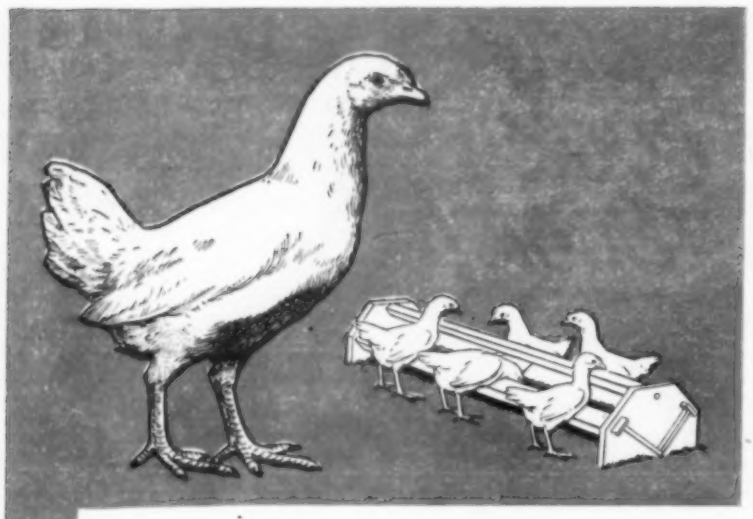
U. S. SAVINGS BONDS ARE SAFE

—OUR ADS ARE NEWS—



## Don't Hesitate when Coccidiosis Strikes

## use SULFA-GUAN-I-DINE

### SAFE — ECONOMICAL — RELIABLE

• No other drug's reputation for saving poultry profits when coccidiosis strikes exceeds that of SULFA-GUAN-I-DINE. Time after time poultrymen have seen old reliable SULFA-GUAN-I-DINE end death losses and save birds from stunting.

SULFA-GUAN-I-DINE is

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—economical—will pay for itself in birds saved, and unchecked growth that maintains weight gains

—the safest and most economical of the world famous sulfas.

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Poultry Department

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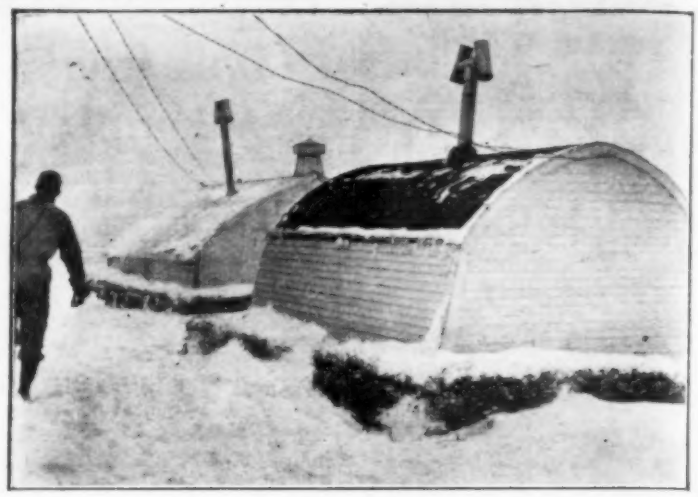
Lederle

ANIMAL INDUSTRY SECTION



**Temperatures** dropped as far as 14 below after Clifford Klein, Jasper county, Iowa, started 500 chicks in early January. But oil brooders, straw-banked houses kept them warm.

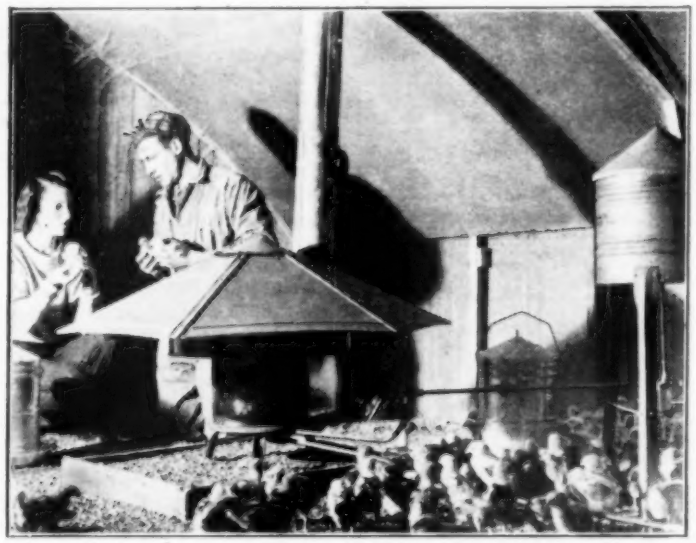
# He'll Get July Eggs

A REAL believer in early chicks is Clifford Klein, Jasper county, Iowa (pictures on this page). He and Mrs. Klein started their 1949 brood of 500 on January 3.

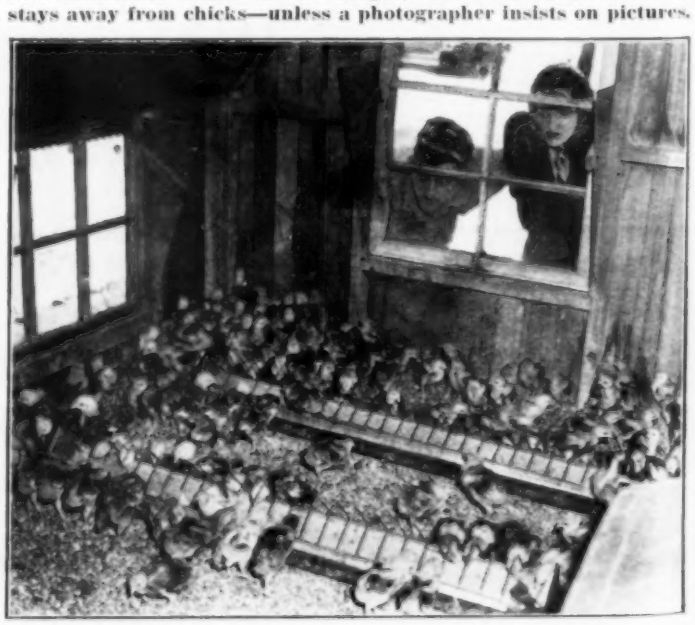
Klein will have his flock in production in time to sell a lot of eggs before the late fall rush starts egg prices downward. But that wasn't his main reason for starting so early.

"This way," says Cliff, "we'll get them raised to where they won't need so much care when the spring rush begins."

As you may remember, the Kleins ran into plenty of sub-zero weather after their chicks arrived. But good brooders and a watchful eye kept the brood coming in good shape.



**Ample Room** is a brooding "must." Kleins raised too many chicks last year, cut this time to 250 in each of two houses. To reduce disease danger, Mrs. Klein tends old hens, stays away from chicks—unless a photographer insists on pictures.



**Frequent** checks are made by Kleins to see that January-hatched chicks stay warm, active. When outside temperature dropped to 14 below, Cliff armed himself with a blanket, spent a night on the brooder house floor. "Plenty warm" was his report.

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CHICK STARTERS
(Granules or Mash)

KNOW your chicks are getting balanced amounts of Vitamins A B D E and G, from organic sources, proteins, carbohydrates, fats and minerals essential for health, fast growth and early development into hens that are good layers. Feed VICTOR CHICK STARTERS — either GRANULES or MASH.

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# The Farm Flock

**HOW LONG** does it take you to raise a brood of chicks to laying age? Now figure backward from September. Remember, egg prices almost always are highest in September, October, November.

▲ ▲ ▲

**IF YOU'RE FIXED** for February or March chicks, this is the year to aim for that early fall market. Feed is plentiful, and there will be a big boost in number of chicks started at the regular time. The more eggs you get before competition gets heavy next winter, the better off you'll be.

▲ ▲ ▲

**HEAT, OF COURSE,** is the big problem in early brooding. You don't have to keep the whole house at a high temperature, but it takes a fairly good building to hold down the cost of running your brooder stove. Insulation is almost a "must." It's a good idea to bank the foundation with dirt or straw. Windows should fit tightly, and there shouldn't be too many of them. Extra ones can be covered.

▲ ▲ ▲

**BROODER HOUSE** should be scraped, swept, scrubbed and disinfected several days before chicks arrive. Be sure the house is thoroly dry, then put down two to three inches of fairly fine litter. Later, you'll add more from time to time until litter is five to six inches deep. Don't figure on removing litter until chicks are grown—except for wet spots.

▲ ▲ ▲

**BE SURE YOU ALLOW** enough room for chicks. One-half square foot of floor space per chick is about right. This will provide enough room until you can get pullets on range. Don't forget: Overcrowding is a sure invitation to picking.

▲ ▲ ▲

**START BROODER** stove a couple of days before chicks arrive. Temperature at first should be 90 to 95 degrees when the thermometer is near the edge of the hover and about two inches off the floor. Heat probably can be cut down 5 degrees a week. Keep chicks comfortable but don't overheat. That's another cause of cannibalism.

▲ ▲ ▲

**USE A CHICK-GUARD**—an 18-inch barrier of cardboard or sheet metal. Place the barrier around the brooder, one and a half to two feet from the hover. Move it back gradually each day, and remove after the first week.

▲ ▲ ▲

**BEGIN FEEDING** with a good starter mash. And don't skimp on feed and water equipment. A hundred chicks need a hundred inches of feeder space (count both sides), and about two gallons of water fountain capacity. Double these when chicks are about three weeks old.

▲ ▲ ▲

**WET LITTER** and sweating walls will indicate you aren't getting proper ventilation. Careful regulation of windows or ventilators should do the trick without getting the house too cold. Add litter gradually and remove any that gets wet around fountains.


Good Chicks come from Good Eggs

Feed Peebles' CONDENSED WHEY-PRODUCT with Ribolac*

The Best Buy in Milk Nutrients
Feed FREE CHOICE from 50 or 100 lb. drums cut in half . . . or 500 lb. bbls. It can also be mixed with mash or grain. *Guaranteed 55% solids.*

● If you want to earn extra premiums for high hatchability and high-grade chicks—supplement your breeding ration with Peebles' *Condensed* Whey-Product with Ribolac.

This nourishing milk solids supplement contains 100% milk nutrients—as well as valuable milk minerals and vitamins essential to high hatchability and shell quality.

Ribolac provides guaranteed levels of Riboflavin . . . the important "hatchability" vitamin. Niacin, another valuable B Complex vitamin is also added—and Vitamin $D_2$ to make up for lack of winter sunshine.

Order this appetizing, economical milk-solids supplement from your dealer today. Ask him for free folders on feeding poultry, turkeys, hogs and calves—the year around—for better growth, health and production.

America's Finest Mixed Feeds are Fortified with Peebles' DRIED Whey-Product with Ribolac

Food from the farm... returned to the farm!

*Ribolac, exclusive Western Condensing Company whey fermentation product—added to provide a guaranteed level of Riboflavin—plus other B-Complex vitamins as well as additional growth factors (both known and unknown) present in *natural* milk sources.

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Easily applied to roosts with Cap-Brush. Fumes kill lice while chickens perch. 1 oz. treats 90 chickens.
LOOK FOR THE Black Leaf ON THE PACKAGE

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You wouldn't consider planting open-pollinated corn this year. Don't sacrifice poultry profits by raising ordinary "open-pollinated" chicks.

Take advantage of Hy-Line's controlled heredity in these qualities:

- High egg yields under farm conditions
- Good resistance to many adverse conditions
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**HY-LINE POULTRY FARMS**
*A Department of Pioneer Hi-Bred Corn Company*
115 Eleventh St., Des Moines 9, Iowa

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BUY FROM THE HATCHERY NEAREST YOU

IN IOWA

| Town | Name of Hatchery |
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| Alexander | Alexander Hatchery |
| Buffalo Center | Grotewold's Farm Store |
| Clarinda | Farmers' Produce & Hatchery |
| Cedar Falls | Hurlburt Hatchery |
| Coon Rapids | Rippey-Miller |
| Council Bluffs | Council Bluffs Hatchery |
| Denison | Tenhulzen & Sons |
| Des Moines | Hy-Line Poultry Farms |
| Dyersville | Lammers Hatchery |
| Grinnell | Rudkin Hatchery |
| Indianola | Allen's Blue Ribbon Hatchery |
| Jewell | Jewell Hatchery |
| Lake Mills | Grotewold's Farm Store |
| LeMars | LeMars Hatchery |
| Malvern | Wilson Hatchery |
| Marcus | Dorr Hatchery |
| Marengo | Marengo Hatchery |
| Marion | The Gordon Hatchery |
| Mason City | Hy-Cross Hatchery, Inc. |
| McClelland | McClelland Hatchery |
| Mount Ayr | Prentis Hatchery |
| Mt. Pleasant | Baxter Hatchery |
| New Sharon | Goodman Hatchery |
| Rockford | Trettin Hatchery |
| Sac City | Sac City Hatchery |
| Schleswig | Tenhulzen & Sons |
| Sheldon | DeJong & Fedders Hatchery |

IN IOWA (Continued)

| Town | Name of Hatchery |
|---|---|
| Sibley | Houghton Hatchery |
| Spencer | DeKoster Hatchery |
| Washington | Washington Chick Co. |
| West Union | Buckley & Kretzinger |

IN MINNESOTA

| | |
|---|---|
| Alexandria | Paul Bunyan Hatcheries |
| Cokato | Oakwood Hatchery |
| Glencoe | Hy-Cross Hatchery |
| Owatonna | Hy-Line Hatchery |
| Redwing | Redwing Chick Co. |
| Sleepy Eye | Sleepy Eye Chick Co. |
| Stewartville | Stewartville Hatchery |
| Wells | Walnut Lake Hatchery |

IN NEBRASKA

| | |
|---|---|
| Lincoln | Roscoe Hill Hatchery |

IN SOUTH DAKOTA

| | |
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| Sioux Falls | Sioux Valley Hatchery |
| Watertown | Lakeview Hatchery |

IN ILLINOIS

| | |
|---|---|
| Joliet | Corn Belt Hatcheries, Inc. |

If no hatchery listed is in your community, write direct to:
Hy-Line Poultry Farms, 115 Eleventh Street, Des Moines 9, Iowa

**Poultry** specialists B. J. Hall and wife, of Greene county, Iowa, have found that good housing and equipment mean higher profits. Cement-floored house has automatic lights to give 13-hour day; running water saves work; ventilation, insulation and deep litter keep house dry. They are getting 275 to 280 eggs daily from 550 layers.

# Want A Better Flock This Year?

### *Then Don't Repeat Last Year's Mistakes; And Plan Operations To Hit Top Markets*

**What kind of luck did you have with your poultry flock last year? As W. R. Whitfield, Iowa State College, suggests in the following article, you'll profit if you resolve not to repeat your mistakes.**

LOOKING back is the beginning of success for many poultry raisers. They examine past mistakes and learn to avoid them.

You can easily repeat 1948 mistakes in 1949 if you don't examine your records or think back over last year. Chances are, you'll find that some changes in management practices are necessary.

Housing and equipment may need improving. They are the basis for much of Iowa's backwardness in poultry production. It takes insulated houses, deep litter, roost pits, automatic watering systems, self-feeders, handy feed bins and many other devices to make high egg production easy.

If you've been keeping a flock record, a quick glance at your books will tell you whether you spent a half-hour or two hours per bird on your flock last year.

Maybe you have been paying for good housing with the extra time you spend in cleaning of house and eggs. Thawing fountains and caring for a flock in full molt is a thankless business.

**Some have good poultry houses and still fail. Poor management may be the cause in some cases. Here are some common faults:**

Birds run out of water or are allowed too little mash. Drafts blow thru a broken window pane, chilling the birds and causing them to catch cold just as production is reaching a paying level. A few old hens, kept when pullets were housed, may give the whole flock roup or start other troubles.

Management is good only when it is consistently good. Seldom will a dozen right steps make up for one mistake.

The breeding of your flock is important. The best is none too good; the poor is seldom profitable. While it is very nearly impossible to evaluate any certain stock for its potential value, it is worth lots of effort to see that it is without serious fault.

Penny-pinching in buying chicks is the least excusable of all practices. Some flock owners last year paid double for chicks what their neighbors did. But they made several times the profit, too.

Give your neighbors a chance to tell of their success. Their records tell the facts. Then follow up to see if others say the same about the stock they used. Look at your records. See if you made money by buying your kind of chicks.

Did you produce most of your eggs or poultry-meat during seasons of scarcity and good prices?

**There is little excuse except pure stubbornness for starting chicks when they're sure to mature after the broiler demand for fall egg prices has sagged.**

The market wants good, tender-meated young chickens all thru April, May and June. Even July is good. But watch out this year for August, September and October.

High prices for eggs will come earlier than usual in 1949. The rise in fall egg prices may not be as steep as in the past. So try to have pullets laying by late July or early August. The longer production at good prices will pay you to move up your chick order to February or March this year.

Most important thing of all is to get a good record book in which to keep account of expenses and receipts. Use the record and see if it doesn't pay in 1949.


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Amazing profits with Hamilton Strain super-Broad Breasts. Growers report 18 pound hens 28 pound toms at 5½ months. Make 1949 your banner year—raise these super broad breasts for extra profits. Also Wagon Wheel strain broad breasts. White Hollands and all other breeds. Poults available for immediate and future delivery. Write

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You can save up to $3.00 per 100 on **CHICKS** Shipped before March 20
New Hamps, Hamburgs, Wh. Rocks, Black Giants, Wh. Leghorns, Brown Leghorns.

**Started Pullets**

Send post card for FREE Catalog and low prices. 48 hr. nation-wide shipping service. U. S. Approved—Pullorum Controlled. Orders Filled Promptly.

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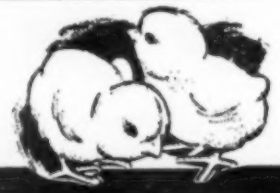

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CHICK STARTERS
(GRANULES OR MASH)
CRETE MILLS . . . CRETE, NEBR.

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Chicks available in all popular breeds and cross-breeds. Low prices for January, February Delivery. Inquire today. Beautiful 4-color catalog free. Write

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—PUT SOME OF THAT EXTRA CASH INTO SAVINGS BONDS—

**Yes, There's More Money In CAPPER Started Chicks**

**Save Time, Work, Worry**

This year get a head start on 1949 poultry profits. Buy early chicks and have eggs and broilers to sell early when prices are high. You can with CAPPER'S started or day-old chicks. One grade only, the best we can produce.

| 3-Week Old WHITE LEGHORN PULLETS | 3-Week Old WHITE LEGHORN BROILERS |
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| PER 100 ..... $33.95 | PER 100 ..... $17.00 |
| Delivery Feb. 21 to Mar. 15 | Delivery any time after Feb. 21 |

STARTED CHICKS SHIPPED EXPRESS ONLY F. O. B. ELGIN, IOWA

3-Week Old WHITE LEGHORN PULLETS PER 100 $36.95 Delivery any time after March 15

**CAPPER DAY-OLD CHICKS**

These prices good only for delivery before March 15

| | POSTPAID PER 100 |
|---|---|
| Straight Run White Leghorns | $12.95 |
| White Leghorn Pullets | $25.95 |
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95% Sex, 100% Alive Arrival Guaranteed. All flocks are pullorum tested. To get these low prices, your order must be received with cash in full not later than March 5th. Prices later $2.00 to $3.00 higher. Order immediately.

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**WILL YOUR CHICKS LOOK LIKE THIS..**

**OR THIS**

Protect them from dangers lurking in contaminated drinking water

**Dr. Jespersen's D.R.D.**

Use Dr. Jespersen's D.R.D., the famous drinking water antiseptic in your chicks' water troughs or fountains. Kill those dangerous organisms in the water before they kill your chicks and poultry. D.R.D. Prices—for 300 chicks, $1.50; 600 chicks, $2.75; 1200 chicks, $5.25.

**Dr. Jespersen's SANITEM**

The NEW and IMPROVED SANITEM. Deodorant and disinfectant. Keeps poultry houses, roosts, equipment sanitary and clean smelling. SANITEM Prices—quart $1.50; gallon $5.00.

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If he is out, to save time we will ship at D.R.D. Prices or at Sanitem Prices direct to you prepaid if check or M.O. with order—or C.O.D. and you pay delivery charges. Attractive proposition for established dealers.

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Dept. W-22 SPENCER, IOWA



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FEED YOUR CHICKS
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**CHICKS THAT LIVE**

Plus 2-Wk. Replacement Guarantee. U. S. Approved Pullorum Controlled. Best Breeding Foundation.

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| | PER 100 PREPAID | | |
| White and Brown Leg., Austra-Wh. | $12.70 | $20.70 | $3.70 |
| | $12.70 | $20.70 | $7.70 |
| | PER 100 PREPAID | | |
| Heavy Asstd. | $9.90 | $13.90 | $8.90 |
| Light Asstd. | $9.90 | $14.90 | $3.70 |
| Heavy Breed Broilers | | | $7.90 |

WRITE FOR PRICES ON STARTED CHICKS 2 TO 4 WEEKS OLD

NOLD Hatchery, Box 26-L, Montrose, Mo.



**LUX R. O. P. Leghorns**

Lux U. S. Certified Chix and Eggs. 20,000 daughters and granddaughters of our ROP hens with records of 200 to 332 mated to ROP males from hens with records of 300 to 354 eggs. 25 years breeding experience. Iowa's largest ROP Leghorn Breeding Farm. Catalog.

Lux Leghorn Land Farms Hopkinton, Iowa


# Takes Water For Eggs

IN COLD weather, hens have a tendency to drink less water. Since eggs are 65 per cent water, birds can't keep up heavy egg production without plenty to drink.

A flock of 100 hens should have from five to seven gallons of water daily to maintain maximum production. That means water with the chill removed. Having water in front of the birds will do little good if it is so cold that they won't drink enough of it.

Hens do not like water that is colder than 55 to 60 degrees. Unless the laying house is unusually warm, some method of removing the chill from the water must be provided.

**Heated fountains are one answer. Or you can carry out a tea-kettle of hot water several times daily. This can be combined with egg-gathering.**

Another cause of cold-weather slumps in egg production is that hens do not eat enough. This often can be overcome by feeding mash moistened with skim-milk or water. Give the birds a noon feeding of as much wet mash as will be cleaned up in 10 or 15 minutes.

Here are some other little things that will keep up food consumption: Place feed hoppers at right-angles to the windows; provide an extra hopper; stir the mash when you walk thru the house, to arouse the hens' curiosity.—A. W., Carroll County, Iowa.

## Too Much Moisture In Hen House

**To the Editor: We are troubled with dampness in our hen house. Will lime spread on the floor help keep moisture down?—Mrs. J. H., Platte County, Nebraska.**

When a chicken house stays wet, it is usually a sign that there isn't enough ventilation to carry away the moisture. Open slot ventilators have become very popular.

Open slot ventilators are long, narrow openings just under the plate at the top of the walls. Usually, they are located on the south side of the buildings. The openings are closed by long 8 or 12-inch-wide boards on hinges, that act as drop-down doors.

Lime often will help keep litter in better condition. Use a pound for each three to six square feet, and mix thoroly into the litter.

When lime is used to help keep buildings dry, it is best to use air-slacked lime to avoid any danger of burning the feet of the birds.

**"She's just a fake. She lays golden eggs, but they're only plated."**


**Warp's SPECTRONIC TOP QUALITY WINDOW MATERIALS**

ECONOMICAL EFFICIENT LONG LASTING WHEN USED ON Storm Doors and Windows, Porch Enclosures, Poultry House Windows, Hot Beds and Green Houses

EASY TO INSTALL — CUT WITH SHEARS—TACK ON

LET IN THE SUN'S HEALTHFUL VITAMIN D RAYS
HOLD IN HEAT
KEEP OUT COLD
CHEAPER THAN GLASS
Shatterproof — Unbreakable
Weatherproof — Flexible

Poultry and livestock *must* get Vitamin D to grow strong and healthy — free from rickets. Common glass shuts out Sunshine Vitamin D. Warp's Window Materials are all guaranteed to let in Sunshine Vitamin D — that prevents rickets and produces strong bones and healthy bodies.

The pictures below illustrate two Experimental Farm Tests. Study them! See the amazing results when chicks and pigs get healthful, ricket-preventing Vitamin D the *natural* way . direct from sunshine through Warp's Window Materials. Let them put the sun to work for you too.

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Results of 12 Weeks Test — Under Warp's Window Material 4 lbs. — Under Glass, Wt. 2 lbs. 13 oz. — Didn't Get Vitamin D. — Same Hatch, Feed, Care — Got Enough Vitamin D.

That Let In Sun's Healthful VITAMIN D RAYS Needed For Best Growth

100 lb. Hogs in 110 Days — In Actual Farm Test

IN SELECTING A WINDOW MATERIAL— REMEMBER THE MAKER, THE PRODUCT, AND THE PRICE

You can identify the genuine by the name "Warp's" and the name of the Material printed on the edge of every yard — sold at Prices shown below.

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WARP BROTHERS, CHICAGO, ILL. *T. M. Reg.

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**WALNUT Prefabricated VENSULATED BROODER HOUSES**

**SAVE TIME...MONEY**

House your chicks in a healthful, comfortable Walnut brooder house within a few days. Immediate delivery on 10x12 or 12x14 ft. models. Precision-cut sections easily put together in a few hours without skilled labor. Assembly-line methods and quantity purchases give you attractive prices. Sturdy, good-looking, long-lasting, convenient.

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The new Home-Way gives you quality construction and variety with big savings through sectional engineering. 20x32 ft. model (illustrated) has basic price of about $2,500. Meets FHA technical requirements. Get special Home-Way circular.

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Boote's chicks are famous for fast growth, rapid feathering —and big egg profits. Popular breeds. U. S. Approved and Pullorum controlled. Hatched in modern, sterilamp-protected hatchery to give you strong, husky, healthy chicks. $4.00 per 100 and up—guaranteed to live 3 weeks. No strings to this. Boote's 22 years' experience assures you satisfaction. Save money. Order now. Free catalog.

BOOTE'S HATCHERIES, INC., Worthington, Minnesota



**6 WEEKS OLD Large White Leghorns**

Healthy, vigorous chicks that have proven their ability to live. We will tell you just what they will cost delivered to you. Get this information today.

ECONOMY HATCHERY, WARRENSBURG, MO.

**WHITE LEGHORNS**

Rocks, Reds, Orpingtons, Wyandottes, Minorcas, Austra-Whites. Assorted. Low as $4.95 per 100. $12.90 Per 100 Prepaid

*Also Sexed and Started Chicks*

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—PUT SOME OF THAT EXTRA CASH INTO SAVINGS BONDS—

It's the strain that counts!

WHETHER YOU'RE OUT TO WIN CONTESTS OR MERELY TO GET MORE PROFITABLE MEAT OR EGG PRODUCTION, Swift's strain-tested chicks will give you the start you need. Developed and tested by Swift's Poultry Research Laboratory, these chicks have been bred from proven strains. For high livability, large capacity, fast feathering, and rapid, uniform growth, buy Swift's strain-tested chicks.

If you're looking for birds with high egg production, more valuable meat pounds, or for dual purpose production, Swift's Hatcheries have strain-tested chicks to handle your problem most efficiently and economically. Order your chicks today from your Swift's Hatchery!

Choose the breed you need! Swift's strain-tested breeds:

- New Hampshire (dual purpose)
- White Rock (dual purpose)
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Crossbred chicks available at most hatcheries. Write for information.

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**Swift's strain-tested chicks are:**

**Husky** . . . They have been developed from strains which show the greatest vigor and fastest rate of growth.

**Healthy** . . . Breeding flocks have been carefully tested and are pullorum-passed. Swift's chicks are hatched under *hospital-clean* conditions, and are given proper care so they reach you in top health.

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ALL-VEGETABLE LAXATIVE

NATURE'S REMEDY (NR) TABLETS—A purely vegetable laxative to relieve constipation without the usual griping, sickening, perturbing sensations, and does not cause a rash. Try NR—you will see the difference. Uncoated or candy coated—their action is dependable, thorough, yet gentle as millions of NR's have proved. Get a 25c box and use as directed.

Nature's Remedy NR TO-NIGHT TOMORROW ALRIGHT

FUSSY STOMACH? RELIEF FOR ACID INDIGESTION, GAS AND HEARTBURN

FOR THE TUMMY!

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40 years' experience in the treatment of arthritis, neuritis, sciatica, lumbago and gout, Hypertension (high blood pressure), Hypotension (low blood pressure), Dermatitis (Eczema and Psoriasis). Also Obesity. Separate Departments for men and women. Two Resident Physicians. On U. S. Highway 212. Tel. Shakopee 123.

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YOUR NAME, made with 1-inch, raised, blackface, ALUMINUM letters. Complete with bolts, nuts and brackets for mounting on top, side or bottom, as shown. Lasts a lifetime. Descriptive literature free. Satisfaction guaranteed or your money refunded.

Single Nameplate, prepaid . . . . $1.00
Double Nameplate, prepaid . . . . $1.75

Adjustable Sign Co., Box EW-1, Askov, Minn.

**Infra-Red** bulbs keep litter dry, add warmth in L. W. Zunkel's hen house, Boone county, Iowa. Two bulbs are near windows, where he had dampness.

# Prevent Fire In Brooder

THE brooder house is one of the easiest spots on the farm for a fire to start. But a few simple precautions will remove most of the danger.

The stove should be cleaned well in advance of the brooding season. And it should be set up for a test run—and to warm the house—a day or so before the chicks are to arrive.

The wafer should be replaced every season, no matter what type of brooder is used.

Give the stovepipes a thoro check. Especially where they pass thru the roof. Be sure that the roof saddle is not rusted thru, and that all of the connections fit tightly.

If you don't have a roof saddle, you should get one. There should be no wood or other combustible material in direct contact with the stovepipe.

**On oil and gas brooders, the fuel tank and fuel lines should be checked for leaks. Replace worn parts. Be sure that the maximum and minimum fuel flow is correctely adjusted.**

Wood and coal brooders should be checked for rust spots and for cracks in the fire bowl. Beware of air-leaks around the door.

A leak at this spot could act as a draft and cause overheating—possibly even a fire.

The electric brooder should be cleaned of all dirt and droppings. The on-and-off switch should be checked, as should all wires and connections. Replace worn and frayed wires. Be sure that wires coming into the brooder house are properly supported and can not be rubbed bare.

**THERE ARE TWO WAYS** to step up profits from your laying flock: Get more eggs per hen, and use less feed to produce a dozen eggs. Flock records studied by Iowa State College show that birds in insulated houses laid two dozen more eggs a year than those in uninsulated houses. They needed a pound less feed to make a dozen eggs, too.

FROZEN FRESH FISH

*As fresh as tho you caught them*

Guaranteed *Skipper Sam* Quality

Packed with dry ice to keep frozen In special insulated wooden boxes

Order this Special Assortment—Today All Dressed and Headless Fish—No Waste

10 lbs. Flounders
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10 lbs. Ocean Pike
10 lbs. Northern Pike
10 lbs. Scaled Herring

FOR LENT 50 Lbs. $10.00

DOUBLE OF EACH KIND—100 lbs. . . . . $19.50

FISH STEAKS . . . 25 Lbs. . . . $11.25

5 lbs. of each kind . . . . Sliced Halibut, Salmon, Sablefish, Steak Cod, Rockfish

SMOKED FISH — Ready to Eat (5 lbs. in cartons)

WHITEFISH . . . . . $2.00 SABLEFISH . . . . . $2.50
CISCOES . . . . . $2.25 SALMON . . . . . $3.25

5 Lbs. of Each Kind . . . $9.50

LENT BEGINS — MARCH 2nd

Order a fast EXPRESS shipment of these GUARANTEED FISH today . . . Write for complete price list and new Fish Folder. Over 50 listings fresh caught Lake and Ocean Fish.

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GREATER PROFITS WITH

Ames In-Cross 301 Chicks

Bred on the same principles used in producing HYBRID CORN. Poultry raisers say: "We have never had chicks as good as these." "We get more eggs than we ever did before." "Ames In-Cross 301 Chicks live better." Here's why: Ames In-Cross 301 Chicks produce more eggs—have a longer laying period—egg quality is higher because of uniformly large size, smooth shell texture and fewer blood spots — fewer culls and less death losses—the cost for feed per dozen eggs is lower.

*See your authorized Ames In-Cross Hatcheryman or write*

Ames In-Cross, Inc.

AMES, IOWA



Boote's

Chicks—Famous For Egg Production

Get Boote's Chicks—bred from high producing strains. Prices $4.00 per 100 and up—3 weeks guaranteed livability. Popular breeds. U. S. Approved and Pullorum Controlled. Eggs hatched in modern sterilamp-protected hatchery. Chicks carefully sorted and promptly shipped. 100% live delivery. Boote's 22 years of experience is your assurance of satisfaction. Order Now! Free catalog.

BOOTE'S HATCHERIES, Inc., Worthington, Minnesota

BUY U. S. SAVINGS BONDS NOW

Jim Murphy Says:

DON'T SENTENCE YOUR CHICKS AND PIGS TO DEATH

ARE your chicks doomed to die before they are hatched? Are your pigs destined to be weak, puny runts before they are farrowed? It has been proved that the death loss *doubles* in chicks and pigs when the parents have been improperly fed. A chick from a strong, vigorous, disease-free flock stands twice the chance of surviving and paying you a profit. And wise hog men know that the most important part of a pig's life is the six weeks *before and after farrowing!* The time to help sidestep death losses is when you feed your hens and your sows. Provide the important and essential substances they need so that these substances can be passed along to their young. To make sure of the extra protein mineral and vitamin substances usually lacking in farm feeds, balance your farm grains into better poultry and hog rations with . . .

**Murphy's Concentrates**

**For poultry, ask your dealer for Murphy's Vig-O-Ray Concentrate, and for hogs, use Murphy's Cut-Cost Concentrate.**

Murphy's Concentrates supply, all-in-one-bag, the protein, mineral and vitamin substances usually required to balance up and fortify home-grown grains—substances that are necessary for good health, fast growth and strong, rugged offspring. You save money too, because you make full use of the grains you grow on your own farm.

**See your Murphy Feed Dealer and start now to feed for better chicks and pigs this year. For FREE information on poultry and hog feeding, write to Dept. F-29, Murphy Products Company, Burlington, Wisconsin.**

MURPHY'S CONCENTRATES



The BEAR CAT
COMBINATION
Grain and Roughage Mill
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NEW Adjustable Drop-Apron FEEDER

Grinds any feed—green, wet or dry. Snapped or ear corn, roughage bundles or bale flakes and no monkey business. It really grinds, and with ordinary farm tractor. Has both cutter head and heavy swing hammers. Adjustable Drop-Apron Feeder works in any position from ground to truck bed height. Get full information on this real honest-to-goodness Bear-Cat Grinder. Four sizes. Write—
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Model 2A-DFI



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Sturdy, low cost, "Ball-Lok" clutches for farm engines and machinery; 1 to 15 H.P. Simple. Compact. Nothing to wear out or adjust. Pulley included. Hi-speed. *Smooth pick-up.* Pays for its cost in belt savings alone. End clutch troubles—ask your dealer for details, or write for literature.

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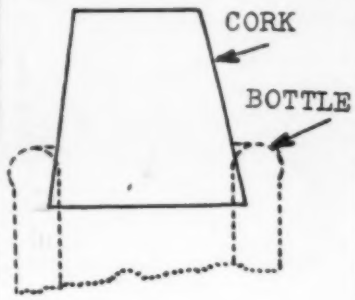
PIGEONS WANTED. COMMON BARN. Large quantities. Highest prices. RUSS ELLIOTT, Raytown, Mo.


Save Money, Buy Bonds

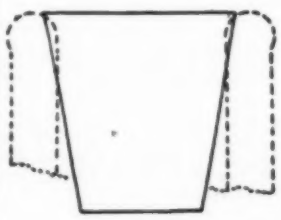
# HANDI-HINTS

## Upside-Down Cork Works Best

There is a right and a wrong way to cork a bottle, especially when the cork is small. The right




RIGHT

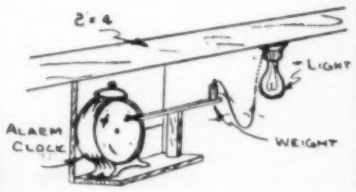


WRONG

way is to insert it upside-down. Then most of the cork sticks up from the bottle, and you can get hold of it. It comes out easily.

## Here Is Alarm Clock Time Switch

The diagram shows an easily built time switch that will turn on lights in the chicken house at any hour you choose.




Fasten an alarm clock to the board or timber to which the light pull and switch are attached. The clock should be set at least four inches from the switch. Put a light board in between as a fulcrum.

Put one end of a short stick or lath less than half-way under the alarm wind. On the other end, put a weight heavy enough to pull the switch when it drops off the lath.

When the alarm goes off, the lath tilts. The weight drops and pulls the light switch.

## Easy Way To Thaw Frozen Pipes

Here is how a Hennepin county, Minnesota, man thaws out frozen water pipes.

He says: "I clamp the ground wire of my electric welder on one end of the pipe and clamp the live wire on the pipe at the other end. It takes about 15 to 20 minutes to thaw out the pipe."

This method is much safer than using a blow-torch. But it might be a good idea to keep hands off faucets while juice is on.


EARL MAY FARM SEEDS

THE NAME TO REMEMBER

**When you buy Farm Seeds, you are buying a whole lot more than just so many bushels of Clover or Oats or Timothy Seed. You are really buying your next season's crop. That's why thousands of farmers have come to depend upon the name "Earl May" as a guarantee of purity and high germination. From experience they know that Earl May seeds consistently bring top yields of the best quality. They are backed by more than a quarter of a century of customer satisfaction and fair dealing.**

***At Your EARL MAY STORE or write for latest prices.***

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TRIPLE TESTED . . . QUALITY GUARANTEED

FIRST — IN OUR LABORATORY— Every packet, every pound of Earl May Seeds is laboratory tested to assure you of high germination.

SECOND — IN OUR 76-ACRE TEST GARDENS— We test-plant scores of varieties, search out the better, heavier yielding strains. It is these improved strains we packet for you.

THIRD — ON OUR TABLES— Vegetables from our test gardens are distributed to folks at the seed house who try them in their own kitchens—the final test to bring you finer textured, finer flavored varieties.

Save money. Plant a "Grocery Store" garden this year. Have an abundance of fresh vegetables of "triple-tested" quality at a fraction of what they would cost at grocery store prices. It's the sure way to better food at lower cost. For timely gardening news and latest weather forecasts, listen to Edward May every week day at 12:15 P. M. and 6:45 P. M., over KMA (960 on your dial).

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EARL MAY SEED CO., SHENANDOAH, IOWA

# FOR BETTER SOIL...

# MORE HAY

## Plant FLAX

## as a nurse crop for legumes and grasses

**HERE'S A MONEY-MAKING IDEA** for farmers who plan to sow more grasses and legumes this year. Plant Flax, too . . . use Flax as a nurse crop. It's the best there is for hay crops.

You'll get better stands because the small, narrow leaves of the Flax plant let sunlight reach the small seedlings. Result—a stronger, healthier legume . . . a better crop of hay.

And don't forget—when you use Flax as a nurse crop you get a full crop of Flax because you sow at the regularly recommended rate.

Many farmers who don't have grass seeder attachments mix both Flax and the legume seed in the drill box and sow them at the same time. Both are small seeded—both require the same shallow, firm seedbed, both are seeded at the same depth.

Want more details? Then fill out and mail the coupon today.

● "There are two reasons why I grow Flax," says George W. Patterson, Burt, Iowa who puts in an average of 300 acres of Flax a year. "First, I can make more money per acre from Flax, and second, it is the best nurse crop and gives me the best stand of grass."

PASTE THIS COUPON ON A PENNY POSTCARD

FLAX DEVELOPMENT COMMITTEE
710 Roanoke Building • Minneapolis 2, Minnesota

● Please send me the free books checked:

☐ How to Choose Your Best Crops for 1949. ☐ New Flax Grower's Guide

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**Inside** is the place to grind your grain in cold weather, says Chester Pickett, of Jasper county, Iowa. Chester runs ground grain on clean-swept floor, then shovels it into sacks for convenient feeding.

# Farmers Report Cost Of Growing Crops

### *Low Yields In 1947 Increased The Per-Bushel Expense On Corn And Soybeans*

CAN you grow a bushel of corn for 75 cents, a bushel of soybeans for $1.60 or a ton of alfalfa for $23?

It may cost you more or less than that, depending on your farm, the weather, your management and other factors. That's what 1947 cost figures kept by a group of Illinois farmers indicate.

For 29 years, some farmers in Champaign and Piatt counties have kept records on costs of crop production. This has been done with the help of University of Illinois agricultural economists.

The twenty-eighth year of these records covers 1947. As reported by R. H. Wilcox, the bushel costs reflect poor yields from the too wet spring, too dry summer.

**The per-acre cost would not be so much affected by lower yields. Even so, the costs per bushel are probably below average, for these are superior farms, Wilcox says.**

One of the important trends shown by these records is the decrease in hours of man labor per acre. During 1920-22, an average of 15.7 hours of man labor were used to produce an acre of corn. Only 6.4 hours were used in 1947. The same general trend is true in other crops.

In his report for costs in 1947, Wilcox used two methods: First, he figured the costs using the long-time land value of $138 per acre, and 5 per cent interest on the land. Then he figured the costs using the current value of $270 per acre, the current 4 per cent interest, he charged for fertility removed over fertility returned to the soil, and added 4 per cent for management charges. Naturally, that cost was higher.

Under the first method, with interest at 5 per cent and land at $138 per acre, the cost of growing and harvesting a bushel of corn was 57.6 cents. When the other charges were added, and land figured at what it would bring on today's market, it cost 75.6 cents to grow a bushel of corn.

The cost figures reported assume owner operation. If farms in the survey had all been rented, with the tenant paying for half of the seed, but nothing for taxes or interest, the half of the corn which the tenant got to keep would have cost him 93.6 cents per bushel.

**Oats under the first method of figuring cost 42.9 cents per bushel; the cost was 55.9 with land at current values and allowing for a management return.**

Soybeans cost $1.26 a bushel to produce under the first system, and $1.60 under the second. There, again, if the tenant had given half the beans to the landlord and paid for only half the seed, the beans would have cost the tenant $1.87 per bushel to grow.

Alfalfa, under the first system, cost only $16.11 per ton, but the cost was $23.31 under the second method. The cost went up a lot when alfalfa was charged for fertility removed and not returned.

Alfalfa is considered a soil-building crop. Yet each time alfalfa is seeded it is plowed under but once; before that, you may haul from six to 15 loads of hay away from each acre. So alfalfa paid the highest cost of any of the crops in the "excess of fertility removed over fertility returned" column. The charge was $11.33 per acre.

That net fertility charge is for the nitrogen, phosphoric acid and potash removed after giving credit for farm manures, phosphates and commercial fertilizers applied to the land.

**HOW TO KEEP ONE IMPORTANT COST LOW!**

•

***Finance YOUR Land with a***

**Federal Land Bank**

**4%***

**FARM LOAN**

Every farmer knows it costs more to operate than it did a while back. One cost you can keep low is the interest cost on the loan that finances your land.

The general trend of interest rates is up—but the 4%* rate you get on a Federal Land Bank loan today is guaranteed never to be higher for the entire life of your loan . . . which may run as long as 40 years.

*(DIVIDENDS from your National Farm Loan Association actually make your net cost *less* than 4%.)

**LAND BANK LOAN IS FLEXIBLE**

You have this LONG TERM protection . . . but you can pay off in full any time from farm income without penalty.

To BUY LAND, MAKE MAJOR IMPROVEMENTS, REFINANCE DEBTS, and other purposes . . . get a 4% Federal Land Bank loan and be safe.

*For details, see your local National Farm Loan Association. For address, write Box 12, Wallaces' Farmer, Des Moines 5, Iowa.*

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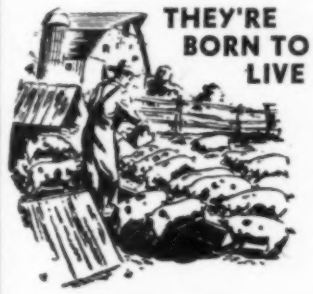
Federal Land Bank Loans
Low Interest Rates Long-Term

Your 100% Farmer Owned Cooperative Guides the way to
**SAFE FARM LOANS**



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Tracite is a medium of supplying trace minerals. Essential for formation of hemoglobin in the blood. Supplies trace elements essential for reproduction and lactation.

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Manufacturers of Drug, Trace Mineral, and Vitamin Compounds for Livestock and Poultry.

**SAVE UP TO $16 a Ton**

**BROWER** *Whirlwind* FEED MIXER

Easy to use. 3 sizes . . . mixes 700 to 3000 lb. batches in 10 minutes. All steel, lasts for years. Over 8000 in use. WRITE for catalog today.

EASY TERMS

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**FOR SALE**—LARGE STOCK OF 32-VOLT ELECTRIC APPLIANCES; fans, refrigerators, washing machines, home freezers, heavy duty bench grinders, electric motors, cream separators, milking machines, churns, electric drills, hair clippers, shavers, irons, toasters, heating pads, combination radio and phonographs, vacuum cleaners, Dormeyer food mixers. Write for literature and prices.

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MOST ALL MAKES.
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**ACME TRACTOR SALVAGE COMPANY**
LINCOLN, NEBRASKA

**BUY U. S. SAVINGS BONDS NOW**

# OUTSIDE STUFF

YOU may have read "In All Its Fury," a book about the terrible blizzard of January, 1888. Now someone can write a similar book about the blizzards of 1949. Good livestock men everywhere hate to think of the suffering and loss of stock on western ranges.

• • •

HOMER Hush tells me January not only had lots of cold days, it was the wettest Iowa January in 76 years, according to Weather Bureau records.

• • •

NOW we come to the question: "Are wet winters followed by dry summers?" Let's hope not.

• • •

"FEEDING gilts high-quality alfalfa meal is about the same as having them on pasture all winter," says Robert Burns, Clay county, Iowa. "Brood sows need about so much bulk, too, and alfalfa sure takes care of that."

• • •

I KNOW the men in charge of the Little Sioux conservation project, in northwest Iowa, are busy. And I wouldn't want to wish too many visitors onto them. Next summer, tho, it would be worth your time to see that project.

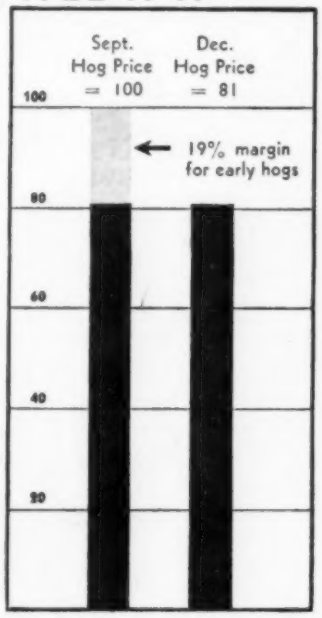
• • •

GEORGE E. Lamp, assistant state conservationist, and his assistants spent a day with some of our staff members. We learned a lot. The story on page 26 doesn't do full justice to the Little Sioux project.

• • •

LATELY, I've asked lots of farmers why they stick with early pigs year after year. I've had all kinds of answers. The chart at the bottom of this column shows the main reason why some farmers, who have the necessary equipment, stay by early pigs.—W. D. Inman.

**1922-1941**




**From 1922 thru 1941, Iowa farmers who sold hogs in December received 19 per cent less than those who sold hogs in September. For example, on the basis of the pre-war 20-year average, if hogs were $15 a hundred in September, you could expect them to be $12.21 the following December.**

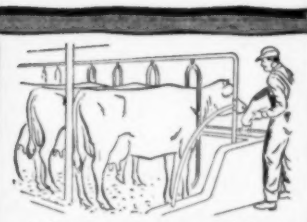
**I was fooled by a feed price tag!**

"I used to feed my cows cheap single protein supplements until my Archer Dealer showed me this . . ."

"Less than 2 squirts of milk per cow per day paid the extra cost of Archer Quality Dairy Concentrate."

"At that rate I was losing money by *not* feeding Archer because I discovered myself that . . ."

"My increased milk production brought me a ten to one return on My Archer Dairy Concentrate investment."



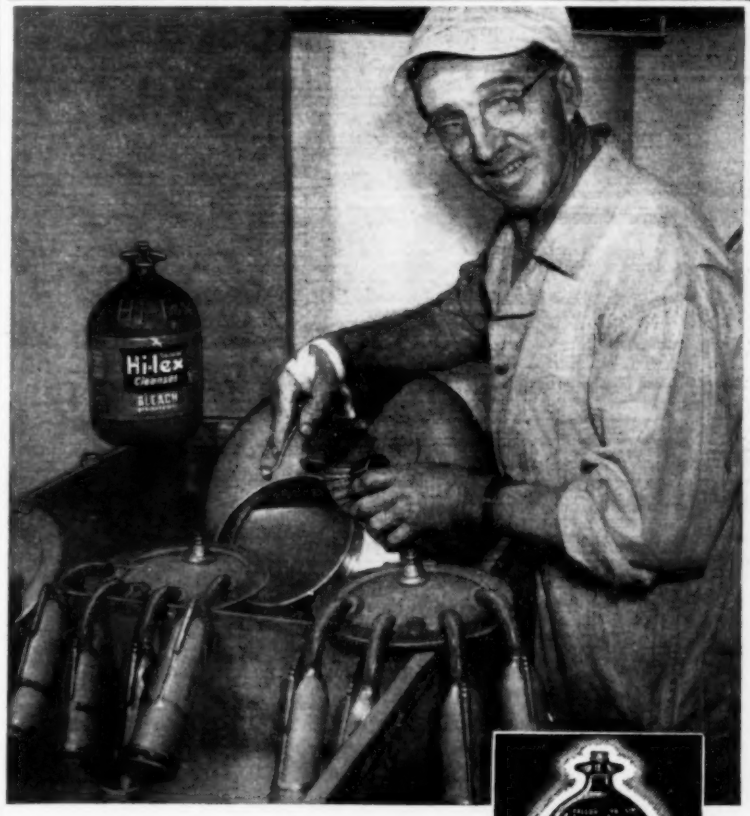
"Archer Dairy Concentrate helps me keep my herd healthier and high producing. I'm making money with Archer!"

Ask your Archer Dealer for Archer Dairy Concentrate and appetite-stimulating Archer Bulk-O-Sweet.

ARCHER QUALITY

**DAIRY CONCENTRATE**

ARCHER-DANIELS-MIDLAND CO.
MINNEAPOLIS




**Hi-lex helps maintain Highest quality milk**

says Iowa Dairyman

"Hi-lex is the most satisfactory dairy disinfectant I've ever used," says Jesse Hill of Morningside Route, Sioux City, Iowa. "Averaging over 500 pounds for each one of 59 cows keeps me on the go . . . that's why I use Hi-lex. It saves time, work and money and yet I'm sure of safe disinfecting when I use Hi-lex. We're saving Hi-lex coupons, too, for special prizes we want." Write for your free premium catalog today.

**Buy Hi-lex . . . Buy the Gallon . . . Buy the Case**

Twin Draulic

Improved STALK PULVERIZER

Unequaled Advantages

- FREE SWING HAMMER BLADES . . . longer . . . more cutting area per row . . . fold back without damage . . . greater hammer pulverizer action.
- LARGER THROAT and FOATING GATHERERS — rides over rough spots and gets all the stalks.
- TWIN GUARDS over each cutter . . . non-clogging . . . even distribution . . . extra safety.
- FITS ALL TRACTORS . . . 3 point suspension . . . tractor mounted . . . fits hand or hydraulic power lifts . . . easily maneuvered.
- ONE MAN OPERATION from tractor seat.
- Lower in cost.

Pulverize Corn Stalks to Control Corn Borers

Authorities recommend pulverizing, cutting and shredding corn stalks for corn borer control, cleaner, easier plowing and fertilizing results.

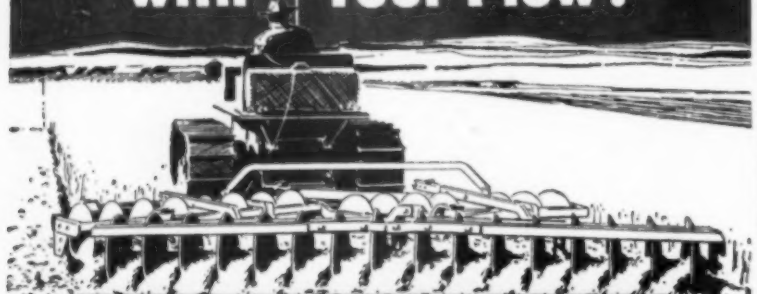
The improved Twin Draulic Stalk Pulverizer does away with rigid knives and side wheels to make pulverizing corn stalks fast, efficient and profitable. The Twin Draulic Stalk Pulverizer glides along over any corn field whether level or hilly and assures faster decomposition for better fertility. Grinding up stalks the Twin Draulic way helps eliminate corn borer and makes clean plowing easier. It offers more money-saving features and trouble-saving extras in construction and safety.

Write today for new low price and free circular or see your Twin Draulic dealer.

TWIN DRAULIC Inc.
Dept. W-22 Laurens, Iowa



Are You Satisfied with Your Plow?



If you are not satisfied with your present method of plowing, check these six reasons for changing to the Towner Two-Way Disc Plow:

1. TURNS THE EARTH TWO WAYS ...providing double mulching without burying the top soil.
2. LEAVES THE LAND LEVEL... and returns earth to its *original* position. No annual "migration" of top soil to right or left.
3. CONSERVES HORSEPOWER... Rolling Moldboards give less drag, freeing horsepower for useful work.
4. CUTS FULL WIDTH AT UNIFORM DEPTH... assuring a complete tillage job and a level field.
5. TURNS RIGHT OR LEFT... making possible any field pattern you wish.
6. CUTS 6" TO 8" DEEP... or as shallow as desired.

Yes, the Towner Two-Way Disc Plow is a welcome improvement over moldboard or one way disc plowing . . . and it's also the answer for orchard and vineyard work, summer fallowing, seed bed preparation, vegetable farming, and for turning under grain stubble, cotton or corn stalks. Compare this with any other tillage tool.

Ask Your Towner Dealer for a Demonstration

TILL WITH TOWNER "Best in Earth"

or write

TOWNER MANUFACTURING COMPANY
Since 1915 • Santa Ana, California


# Farm and Feed-Lot

## Nitrogen Helps Oats Use Fertilizers

**A little nitrogen on the oat field helps the oats make best use of any fertilizer left over from the previous corn crop.**

Clinton oats, grown on three similar fields, where 0, 600 and 1,200 pounds of 10-10-10 fertilizer had been applied to the previous corn crop yielded 66, 66 and 71 bushels per acre.

However, 40 pounds of nitrogen on parts of all these same fields got yields of 72, 75 and 80 bushels per acre. Nitrogen did not cause lodging in Clinton oats, but Benton went down badly. Straw yields were increased.

## Brood Sows Can Use Corn-Cob Meal

**If your brood sows are under a good system of management, corn and cob meal is just as good as shelled corn in their ration.**

In tests at Pennsylvania State College, no difference was seen between a ration of 80 parts corn and cob meal plus 20 parts protein supplement or one of 68 parts ground shelled corn, 20 parts alfalfa meal and 12 parts protein supplement. Both groups had minerals and salt.

The number of pigs farrowed, weaned, average farrowing and weaning weights, and feed eaten per 100 pounds of gain from farrowing to weaning were similar.

## How Can Hog House Be Insulated?

**To the Editor: I am looking for a practical way to warm up my hog house for March farrowing. Could you give me some ideas on insulation? Are straw lofts practical?—G. R., Buchanan County, Iowa.**

Some farmers stack corn fodder around the outside of the hog houses. Others run slat cribbing around the building, especially on the north and west. Then they tramp straw between cribbing and sides of hog house.

Straw lofts should be about seven feet above the floor, says the Iowa experiment station. The loft should be covered with three to four feet of loose straw or one to two feet of chopped straw.

There should be two ventilation doors located above the straw at each end of the building.

For additional heat, it's hard to beat a light bulb or heat lamp hung low over the farrowing pen.

## Keep Your Fertilizer In Good Shape

**Fertilizer bought now can be stored safely and kept in good condition until spring—if you handle it right.**

These winter storage rules are suggested by the Middle-West Soil Improvement Committee:

1. Store plant food sacks in a dry building with off-ground floor.
2. If you have to use earth or cement floors, stack fertilizer bags on platform of blocks and boards.
3. If sacks are burlap, keep the piles close together, to cut down air circulation and absorption of moisture.
4. Put only seven or eight bags in a stack; bigger piles may cake fertilizer in bottom sacks.
5. Keep broken bags separate from main pile, because loose fertilizer soaks up moisture.

## Cattle Lice Control Pays Off

**A series of weight-gain tests show that control of cattle lice is profitable to the beef producer.**

This is the statement of J. A. Munro, of the North Dakota agricultural experiment station.

Tests were carried out on range cattle in several western states. During the period of heaviest louse infestation, one group of treated cows averaged a gain of 83½ pounds per head. Untreated check animals gained an average of 10½ pounds.

The gain difference of 73 pounds was credited to louse control, which was the result of a single spraying.

**Snowdrifts** were tough problem for many Iowa farmers last month. Charles Mishler, of Dallas county, had to clear a half-mile to get to an open road. He did it by taking 100-foot runs with the tractor, pushing about three feet per buck. Blaine Kuehl and Ivan Knoll stood by with shovels. Took most of a day to finish the job.

CHAMPION Ready-Built HOG HOUSES

CHEAPER·BETTER·EASIER THAN YOU CAN BUILD YOURSELF

Champion "ROUND" HOG HOUSES
In 2, 3, 4, 6 or 8 Pens up to 30 Pens.

Champion "SQUARE" HOG HOUSES
In 2, 3, 4, 6 or 8 Pens. Size of pens 6'x6' and larger. With or without alleys.

SAVE Time, Work and MONEY. Why bother to build your own hog house? CHAMPIONS are made of good dry lumber and quality materials throughout. No fuss, no bother, no carpenters to wait on.

COST LESS than any on-the-job type.
STRONGER, STURDIER — better built.
MORE ATTRACTIVE — better designed.

Write for NEW REDUCED PRICES and full information, etc.

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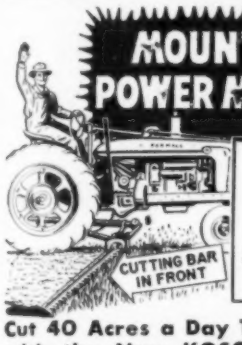
MOUNTED POWER MOWER

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For easy cutting, you can't beat the KOSCH MOWER. The cutting bar is in front where you can see it all the time. No tiresome looking back. You see where you're going, see where you're mowing. Allows you to take full swath, cut faster. Amazingly easy to handle. Hydraulic and manual lift. Mounts on tractor in less than 5 minutes. A "must" for every Farmall H & M or John Deere A & B owner.

BUY NOW FOR SPRING

Because production is limited, hundreds of orders had to go unfilled last year. Take no chances for this Spring. Place your order now. Send postcard today for free literature, prices, name of nearest dealer. (Please indicate make of tractor.)

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NEW SEED OATS

REAL OATS NEWS. Write for Picture Facts & Crop Reports Proof on GREAT NEW CANADIAN BEAVER OATS. Took Grand Champ. Int'l Grain Show '46 & '47. High yield and quality is what you want. Some yields running 90, 95, 105, 110 up to 120 & 127 bu. per A. WHY SUCH YIELDS? (1) Disease resistant, stiff straw, stood where many others went flat. (2) Long heads. (3) Heavy stooling, deep roots. Result: high yields & profit. Also New Iowa Ex. heavy Colo & Mindo Early Minn. out-stander, Benton & Clinton. Looking ahead now can mean extra real cash next fall. New Montcalm Barley & New N. D. Mida Spring Wheat. Free samples postpaid.

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Davendor Special. Pods 3 & 4 Seeded. Won 5 A. Ia. Yield Contest. '46 & '47. Yields up to 35, 37, 40, 43½ & 45 bu. per A. Supplies limited. Free samples postpaid.

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WORMY PIGS? Doctor Hinrichs' Hog Powder. Fed in feed. No starving. 5 lbs., $3 Postpaid. HINRICHS REMEDY CO., WALCOTT, IOWA

**Squirrel-Cage** fan is handy for blowing a lot of shucks and dirt out of ear corn as it goes into crib, says Fred Dubbert, Pocahontas county, Iowa.

## Plant Corn And Beans In Alternate Rows

**Planting corn and soybeans in alternate double rows may not be as silly as it sounds.**

University of Illinois agronomists have boosted corn yields eight to 27 bushels an acre that way.

Apparently, the system cuts down competition for plant food, moisture and sunlight. Major disadvantage is the problem of harvesting.

## No Profit On Cows In First Two Years

**A dairy cow usually does not start to make money for you until her third year of milking.**

So says C. S. Rhode, dairy specialist at University of Illinois.

The first two years of milk-giving, says Rhode, just pay you back for the cow's room and board up to the time she first freshened.

So herd replacements should be capable of high production over a long period of time. Breed high-producing cows to superior bulls, or buy heifers from that kind of mating.

## How To Figure Price Of Corn Silage

**To the Editor: I am going to buy some corn silage. Can you give me an idea of what it would be worth a ton?—J. B., Buena Vista County, Iowa.**

There are two ways to figure the value of corn silage:

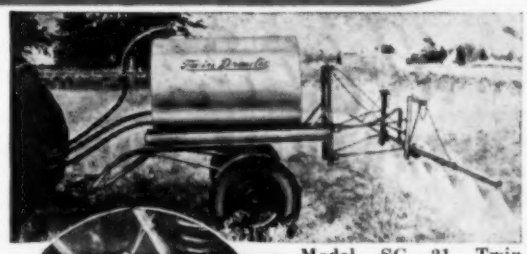
1. On the basis of feed value, three tons of average corn silage have been found to furnish approximately the same amount of total digestible nutrients as one ton of good quality mixed hay. Therefore, a fair price for a ton of corn silage would be one-third the market price of a ton of good mixed hay.

2. A ton of well-eared corn silage usually contains about seven bushels of corn. The market price of seven bushels of shelled corn, plus an allowance for dry matter in stalks and leaves, would be reasonable for silage.

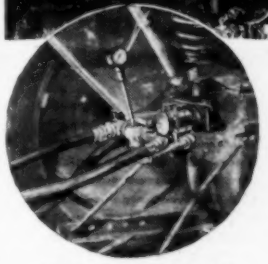
Since hay and corn fluctuate in price, probably an average of the values indicated by the two methods will be fairer than a price figured by one method alone.


Twin Draulic

POWER TAKE-OFF SPRAYER Saves Up To $200 For IOWA FARMERS



The sprayer Iowa farmers have been been waiting for. Look at the many features that assure all purpose use . . . safety . . . accuracy . . . convenience . . . more years of use.



150 GAL. TANK mounted on high clearance cart. — Tractor operated from power take-off pump. — LIFE-TIME aluminum tank and copper tubing in steel reinforced boom. — RIG-O-FLEX boom folds for gates, avoids damage.—TWIN-EZY boom adjustment.—Finger tip control from tractor seat. —Precision (10 gal. per acre) nozzles with 23 ft. 4 in. spraying area.—HAND BOOM AND HOSE also included. —All at a new, low, money saving price.

Model SC 21 Twin Draulic Sprayer that saves you up to $200, is complete. Gives a spraying pressure of zero to 300 lbs. for every spraying need. Sprays 2,4-D for weeds, DDT for borer and insects or chlordane for grasshoppers. See it at your dealer or write for FREE circular.

Circle shows gear pump on tractor (operated by power take-off) with hoses to tank and boom.

Twin Draulic Power LOADERS

Model C Twin Draulic Loader fits row crop tractors. Handles manure bucket, bulk shovel, hay stacker, scraper blade (bull dozer), etc. See your dealer or write for free circular. Save money, get the best.

FIT OVER 88 TRACTOR MODELS

Over 88 tractor models can now be fitted with a Twin Draulic Loader. No other loader gives you "adjustable power" provided by the patented variable lifting mechanism for height and power. No other loader so completely distributes the weight of the load over the entire tractor to provide greater traction on the rear wheels. No other loader is put on or taken off the tractor so quickly and easily. No other loader has twin balanced (yoked) hydraulic lifting with such finger tip control.

TWIN DRAULIC Inc.
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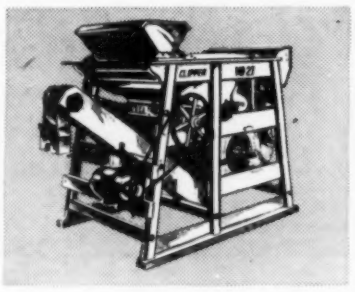
*Advertisement*

NEW SEED CLEANING AID FOR FARM USE ANNOUNCED

Cleans Up To 125 Bu. Per Hr.

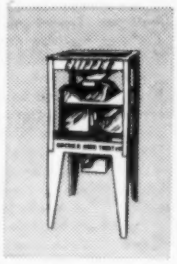


Combining small-model portability with big-model speed and selectivity, the new Clipper "27" cleans 40 bushels of seed, 100 bushels of grain or 125 bushels of beans per hour—all at surprisingly low cost!

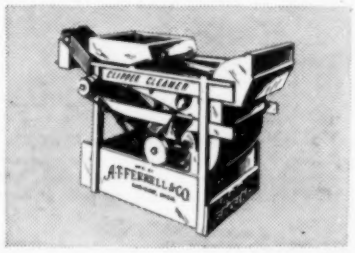
The new cleaner is designed specifically for big farms and certified seedsmen. Construction features include a sacking elevator with a two-way bagger and clean-out slide, adjustable traveling brushes under the bottom screen, and bronze self-aligning oil bearings.

Only 1 HP is required for power drive. Six screens of the buyer's choice are furnished with each cleaner.

When the "27" is used in connection with the Clipper Rocker Seed Treater, seed is thoroughly cleaned and protected from fungus disease. Completely automatic, the unit requires no extra power to operate, and treats up to 100 bushels per hour. Utilizing chemical "dust" disinfectants, the Rocker Treater prevents crop disease faster and better than ever before possible.



For smaller farms, the famous Clipper 2B Special meets all seed cleaning requirements easily. Inexpensive and versatile, the 2B Special is an old-time favorite of farmers all over the country.




For details, see your farm dealer or write for your Free copy of "Helpful Hints". The Hamilton Company, Cedar Rapids and Fort Dodge, Iowa.

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The labor saving HI-LO-PAC makes your tractor more valuable than ever. Throw one of the levers to raise or lower plows, cultivators, mowers, combine platforms, grain drills, hay pushoffs, manure loaders. It will also angle or straighten disk harrow gangs and do many other jobs. Tillage implements are controlled by the double acting Char-Lynn cylinder. Mounting brackets are available for popular tractor makes and models. Hundred of dealers stock the Hi-Lo-Pac. If yours doesn't, write us for the address of the dealer closest to your farm.

- RUNS 2 HYDRAULIC SYSTEMS AT ONCE
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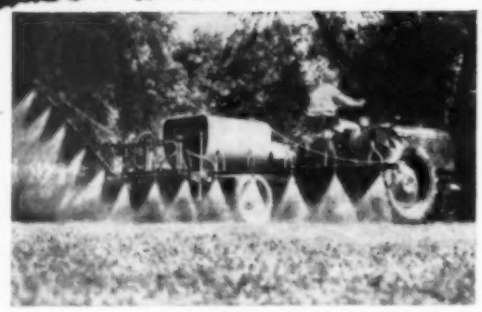
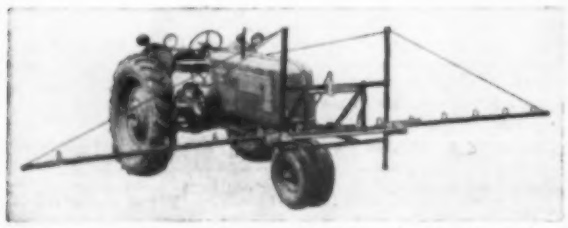
Weeds and insects won't wait. *Don't you.* Investigate *now* Dobbins *new*, modern and complete line of sprayers and booms . . . the very best. Trailer-type sprayers of 125 and 250 gallon tank sizes, with a pressure range from zero to 400 pounds . . . power take-off models, complete with pump and fittings . . . gasoline engine models which can be drawn by tractor, jeep or truck . . . all made to deliver up to 7 gallons per minute and handle perfectly all spray solutions.





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Farmers the world around choose DOBBINS as the *finest* in spraying equipment, built to perform countless jobs at the lowest cost . . . for spraying row crops, livestock, buildings, trees—perfect, whatever the job. Each Dobbins unit is the product of careful research . . . *built to serve and to last*—dependable.

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A COMPLETE LINE OF POWER AND HAND SPRAYERS AND DUSTERS

—SAVE MONEY THE EASY WAY—BUY SAVINGS BONDS NOW—

**Rebecca at Well** in Palestine. Only the Bible Rebecca probably used a sweep, not a pulley, and she certainly didn't have an American oil can to put the water in.

# Shepherds --- Bombs

EVERY farm family knows the names of Bethlehem, Nazareth, the Jordan, as well as they know the name of their county-seat and the creek that runs thru it.

But it is hard to think of bombers over the holy city of Jerusalem, of a battle at Jaffa, of modern industry at Tel Aviv.

Marion Reece, photographer, brings back from Palestine pictures that show how some things stay unchanged in the Holy Land. But not all.

**Bethlehem** still has shepherds. But pastures are rocky and hills brown. Grass was better in King David's time.

**No Camping** trip, but daily life for a refugee Jewish family in a camp near Tel Aviv. Jews have fertilized and watered poor land and reclaimed much of it from the desert.

CRACK DOWN on WEEDS

MODERNIZE YOUR CULTIVATOR

with Russell WEED-CONTROLORS. Cash in on bigger yields, lowered costs, and weed-free crops by cultivating with this farm proven cultivator attachment. Russell WEED-CONTROLORS scientifically destroy weeds in the plant row without hoeing, spraying, or pruning plant roots. *Write or see your distributor for literature.*

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*Kills Germs on Contact*

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"Not a Weed Left"

Tend your garden this modern way. Quick; easy; far better. Rotating blades and underground knife destroy weed growth. "BEST WEED KILLER EVER USED." In same operation they break up the clods and crust, aerate soil, work the surface into a level moisture - retaining mulch. Patented filler drum and other big advantages.

A woman or boy can use it — do more and better work than 10 men with hoes. Write for literature, sizes and prices direct to you.

Save time—save labor.

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WRITE for FREE CATALOG

INTERLOCKING FENCE CO., Box 526 Morton, Ill.


# Enforce Our Weed Law

**"New Law Helping in Weed Control," a report of what farmers and farm managers thought of the Iowa weed law after two seasons, appeared in the November 6 issue of Wallaces' Farmer and Iowa Homestead.**

**That article evoked still more comment about the strong points and the deficiencies in the law. Some of these later comments are printed here.**

WEAKNESSES in the enforcement of the law are the prime complaint against it. A lawyer writes: "The enforcement of the weed destruction statute is so scattered that it is difficult to get any active work on the part of the commissioner.

"It is our firm belief that we will never get any efficient work done in the way of weed destruction (on the troublesome cases) until we get more responsibility centered in someone who is a little more free from the sins of politics than the board of supervisors."

Several weed commissioners and a few farmers wrote in to criticize the November 6 report for not being more critical of railroad weeds.

"You had one page on what should be done to get farmers to destroy weeds, and about two lines on railroads weeds," says William Nels, Osceola county, Iowa. "About half the weeds get started on railroads. Let's start enforcing the law where the weeds start."

He goes on to point out one thing which would make roadside weed control easier: Whenever a county road is worked, the banks should, if possible, be sloped so they can be mowed by machine, he thinks.

**Weed commissioners now are limited to spending $25 on one tract of weedy land, unless the supervisors authorize a greater expenditure.**

"With wages as they are, that amount often doesn't make a dent in a weedy tract. By the time the supervisors get in session to authorize more money, the weeds may have gone to seed," writes D. D. Hammond, Calhoun county, Iowa.

Increasing the amount a commissioner can spend in his own jurisdiction would help that problem.

Walter Wright, of Iowa county, brought up that same problem in connection with railroad rights-of-way. "You can't mow much right-of-way for $25, but if I had my way, the weed commissioner could hire the help, go ahead and mow the weeds.

Cost of such destruction of noxious weeds is assessed against the land-owner under the new weed law.

**"Armour and Morrell's had their eyes on me, but I got up here the Swift way."**

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Test salutes Keith Fruits, Kaw City, Okla., for winning the champion open class shorthorn steer award at the American Royal in '47 and first place Junior Yearling at Chicago's International.

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Your baby chicks will eat no more than a thimble-full of Chick Starter a day. In that thimble-full, your chicks must get the proteins, vitamins and minerals necessary for them to live. And they must get these elements in the right proportions if they are to thrive and grow. Thus, you should feed your chicks the very best Chick Starter. In fact, a better feed will save you money through fewer chick losses and through faster growth of your chicks. Buy for quality . . . buy KENT this year!

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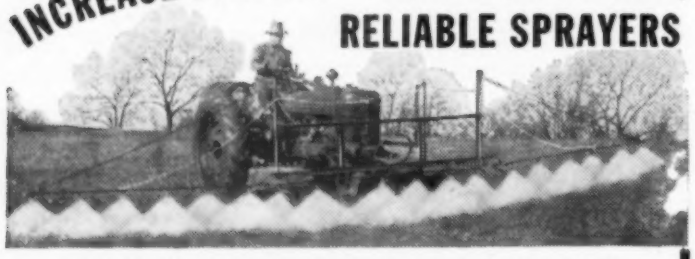

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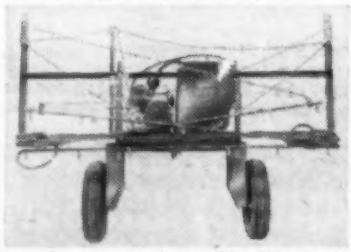
**Engine Model with 2-wheel Trailer**
60 gallon tank, 2.3 HP engine . . can be used on trailer or as skid for many spraying jobs around the farm. Illustration shows sprayer with boom mounted and folded.



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# First Aid for Stock

## Pigs Have Red Eyes And Bellies

**To the Editor: My hogs get red eyes and their bellies get red. Then they get the black scours. In two or three days, they die. What can be done for this? Is it contagious?—G. P., Cerro Gordo County, Iowa.**

Your pigs probably have either cholera or the acute form of swine erysipelas. Unless you get a veterinarian and let him pick out the ones that can still be saved, you will probably lose them all. Some may still be saved by prompt use of anti-hog cholera serum or anti-erysipelas serum, whichever is indicated.

In cold weather, the loss will be light in any event. Some hogs that begin to get sick will lie around in drafty places and pick up pneumonia.

## Calves Are Born Weak

**To the Editor: Our cows have dropped weak calves lately. Could iodine deficiency cause weak calves?—Mrs. C. S., Iowa County, Iowa.**

It probably is not lack of iodine that causes this trouble. Iodine deficiency does not result in the symptoms you describe. But it won't harm them to feed some iodine.

It is hard to tell exactly what causes weak calves, but it is likely due to a vitamin deficiency in the cows' diet. When cows are on a ration short in Vitamin A, their calves may be very weak.

When cows have been on poor pasture or poor hay, there is a possibility that Vitamin A is low. It could also be lack of phosphorus or calcium. This can be corrected by feeding bone-meal.

## Cow Settled, But No Calf

**To the Editor: One of my cows is several days past time for calving, but is not showing much sign of birth. The cow has shown no signs of coming in heat since the last service. She is in good health, and has never been hurt in any way.—J. N., Mercer County, Illinois.**

There can be several causes for this condition. Most common one seems to be the persistence of "yellow bodies," or corpus lutea. These yellow bodies normally persist thru pregnancy, and are the cause of no-heat periods during that time.

In some cases, the yellow body is not shed off after birth, so no heat and no conception occurs.

In other cases, cysts form in the walls of the ovaries. These interfere with conception. They can be removed by the hand of an experienced surgeon, massaging the ovaries. Reproduction cycle is restored, and many become breeders again.


Fresh Fish

Frozen alive in the snow, on the lake. The best, clear water, good eaters. Appetite satisfying varieties for particular cooks. Every fish has passed a rigid inspection, and we guarantee shipments. Packed to arrive good at your "EXPRESS DEPOT." Make up an assortment today sure. Just check the fish you want or mail separate letter, including ad and we will ship promptly C.O.D., plus fees or you may remit with your order.

SPORTSMAN SPECIAL

25 lbs. dressed, headless Northern Pike, 25 lbs. Walleyed Pike, 25 lbs. Lake Perch, 25 lbs. Dressed Lake Trout; all 100 lbs. $29.00, ½ order $15.00.

ALASKA GEMS

30 lbs. Flounder, 30 lbs. Salmon, 40 lbs. Chicken Halibut. These are all headless, gutted, sealed fish for steaking. All 100 lbs. $38.00, ½ order $18.00.

FANCY PACK SPECIAL

Ideal for storing in home freezer, as this assortment is all cello-wrapped in 1 lb. packages, separately, in 10 lb. boxes. All boneless, absolutely ready for be pan; fry slowly in deep fat.
20 lbs. Pike steak, 20 lbs. Perch steak, 20 lbs. Cod steak, 20 lbs. Haddock steak; all 80 lbs. $24.00, ½ order $12.50.

LAKE MICHIGAN SPECIAL

Packaged for frying, same as above special. 20 lbs. Bluefin steak, 20 lbs. Mullet steak, 20 lbs. Northern Pike steak, 20 lbs. Whitefish steak, all 80 lbs. $25.00, ½ order $13.00.

BOX LOTS

50 lbs. famous all cleaned Bull Heads in 10 lb. boxes $14.00 or $3.00 per box, 100 lbs. Silver Herring $8.50, 100 lbs. gutted Silver Herring $10.00, 100 lbs. Suckers $7.50, 100 lbs. cleaned large and good Carp $13.00, 50 lb. box all cleaned Carp $7.00, 15 lb. box Lake Michigan smelt $2.50, 100 lb. box round Northern Pike $15.00, 100 lb. box boneless, dressed Northern Pike $22.00, 100 lb. box Walleyed Pike $28.00.

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Ready to eat for a delicious quick meal or lunch. If ordering by parcel post add 40 cents postage.
10 lb. box smoked Fat BUFFALO CHUNKS $4.50, 10 lb. box ALASKA SALMON CHUNK $6.75, 10 lb. box Chunk Fat White Fish $4.50, 10 lb. box Fat Chunk Quebec Eel $5.00, 10 lb. box Smoked Herring $2.25, 10 lb. box Smoked Fat Whole Tullibee Whitefish $4.00, 10 lb. box smoked Fat Lake Chubs $4.00. Order as much as you like of these varieties. Frozen fish must be ordered by express and when ordering smoked fish and frozen fish together we will ship it all by express. Order with confidence from your friendly fisherman.

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Made by G & D MFG. Co.
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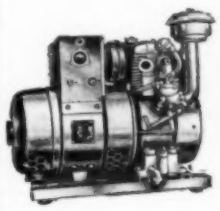

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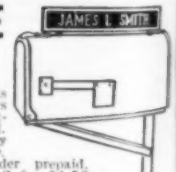


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You can actually relax and work from sun-up to sun-down without over-fatigue or strain on a FLOW-TING Hydraulic Tractor Seat. Patented weight adjustment feature gives the same easy ride to man or boy regardless of size. The airplane shock absorber principle eliminates those backbreaking jars and jolts—even in the roughest field. Quickly installed on most tractors. Write for literature and name of nearby dealer.

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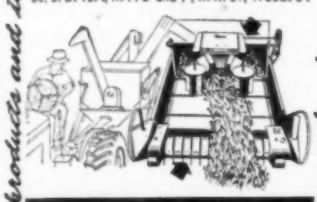

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Patented piston action picks entire windrow up clean. Wrapping, clogging, shelling, reduced to almost nothing. Light and easy to attach. Costs less. Models to fit any combine. For complete free information, see your dealer, or write INNES COMPANY, Bettendorf, Ia.

*The Innes Company is an old established firm that stands behind its products and its dealer*



**Good NEWS for Farmers**

THE OTTAWA "C" SHELLER IS AVAILABLE AGAIN

- *600 to 1,200 bushel hourly capacity*
- *Less power to operate*
- *Shells corn in any condition*

The Ottawa Line is nationally known for its tremendous capacity and economy of operation. The Ottawa "C" sheller is ruggedly built and simply constructed—engineered for long years of hard usage. Guaranteed to shell toughest corn clean, whether snapped or husked—dry, wet or soft. Ottawa "C" shellers are exceptionally compact—more adaptable than any other corn sheller for mounting on truck frames. Models on automotive running gear also available. For further information consult your Ottawa Dealer or write direct to us.

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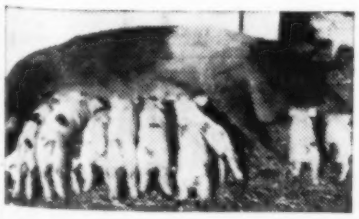

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Be a farm dealer. Buy your mineral and proteins at a discount and sell your neighbors.

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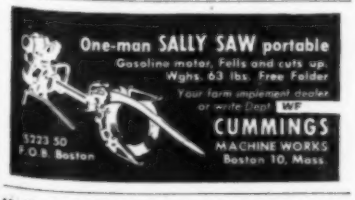
Gasoline motor. Fells and cuts up. Wghs. 63 lbs. Free Folder



Your farm implement dealer or write Dept. WF

$223.50 F.O.B. Boston

**CUMMINGS** MACHINE WORKS Boston 10, Mass.


U. S. SAVINGS BONDS ARE SAFE

"He carries this sanitary business too far."

## No Sure Cure For Necro

**To the Editor: What drug is the best to feed when hogs have necro? — W. B., Nance County, Nebraska.**

The USDA book, "Keeping Livestock Healthy," says: "No known medicinal treatment has sufficient merit to be recommended as a specific treatment."

Experts generally agree that the best method is to avoid the disease by prevention. That means sanitation.

Here is what the experts say to do when hogs show signs of necro:

First, isolate the diseased pigs. Get them away from the healthy pigs, or the disease will spread. Put the well pigs on ground that does not carry bowel discharges of infected pigs.

Change the feed to a slop containing ground oats or barley. Some put the pigs on a skim-milk or buttermilk diet. Give them milk only—no water, and no other feed. After a few days, change gradually to a thin slop diet of ground barley or oats mixed with milk.

To prevent necro in the future, it might be well to use the clean-ground system for farrowing.

## Pimples On Teats Won't Heal

**To the Editor: I have a cow that is infected with pimples on her teats. They resemble small warts, but break open and scab over.**

**After the scab is gone, they leave a small spot which in time forms another pimple. I have been told this is cowpox, but the remedies that I have tried have failed to clean up the teats.—G. W., Greene County, Iowa.**

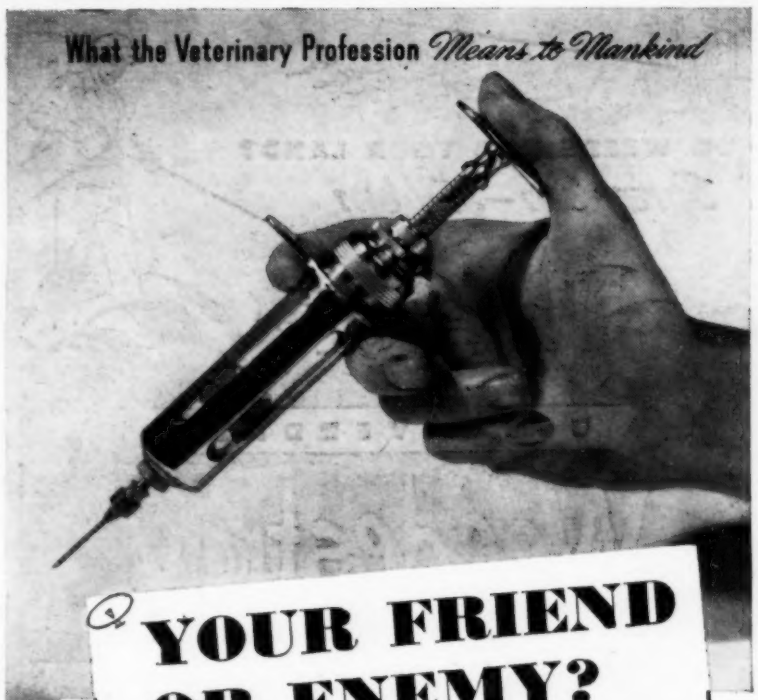
We believe this is a case of cowpox, or variola, a virus-caused disease of the teats and udder which varies widely in its effect on individual animals.

One treatment is iodine. First, cleanse the teats as well as possible by washing them with a solution of six ounces of sodium hyposulphite in a gallon of water. After they are dry, apply tincture of iodine to each sore with a cotton swab.

Another treatment which has given good results when iodine seems to fail is the same cleaning and then application of thuja ointment. Any druggist can supply the ointment.

In working with this disease, you should remember that it can be spread to other animals. It is also possible for humans to contract it.


**What the Veterinary Profession *Means to Mankind***



**YOUR FRIEND OR ENEMY?**

Do you know that this vaccinating needle can infect your livestock, as well as protect or CURE them? In trained hands it can save your animals from disease. If used carelessly it can actually SPREAD disease. It can pass germs on from unknown "carrier" animals to healthy ones. The virus of cholera can be spread by contaminated syringes and needles. Improperly sterilized needles can produce serious infections. Don't take such chances! When drugs or vaccines are to be injected beneath the skin of YOUR animals, consult your veterinarian. His scientific skill costs little . . . may mean the difference between SAFETY and serious LOSSES.

AMERICAN FOUNDATION FOR ANIMAL HEALTH

*Under the Sponsorship of Associated Serum Producers, Inc.*



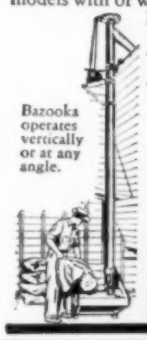
**ONLY BAZOOKA SPIRAL GRAIN LOADER Has the Famous FLEXODRIVE (Pat. Pend.)**

**With CARRIER MOUNTED ENGINE *DOWN* Where YOU CAN CONTROL IT!**

*Flexodrive* takes the power plant off the tube, brings it down LOW where you can get at it. Only Bazooka has this time, labor, money saving feature. In addition, Bazooka's *sectional tube construction* makes it easy to add 5 and 10 foot extensions at any time for any length from 16 to 31 feet.

Investigate Bazooka, the best grain loader buy. Two models with or without Flexodrive and carrier. Sold by dealers. Fully described in new **FREE CIRCULAR.** Write today.

**The WYATT MFG. CO., Inc.**
*Jayhawk Farm Implements Since 1903*
Dept. B-10, SALINA, KANSAS



Bazooka operates vertically or at any angle.

Bazooka without Flexodrive and carrier at lower cost and in 11 foot and 16 foot basic lengths, with 5 and 10 foot extensions.

Bazooka equipped with swivel bracket to fit on truck or trailer.

1. Direct Flexible Shaft Drive.
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3. Simple Throw-out Clutch at Your Fingertips.
4. Adjustable Tripod and Engine Mounting.
5. Moves up to 1320 Bushels Per Hour Without Cracking Grain.
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**STUTE TRASH GUARDS** Endorsed by Nat'l Plowing Champions

Gives you faster, easier, cleaner plowing with less time, less work. Completely turns under all trash. Positively will not clog. Spring steel—patented "knee action" principle—will not interfere with jointer. Quickly attached—nothing to take off your plow. Tested and proved. Lowest priced.

See your dealer or write giving make and model of your plow, number of bottoms and whether it has cast or steel coulter yokes.

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—PUT SOME OF THAT EXTRA CASH INTO SAVINGS BONDS—

**40 BUTYL ESTER**
**3.3 lbs. to gal. (2.64 lbs. 24D acid)**
**40 AMINE SALT**
**4 lbs. 24D acid per gal.**
**Used in hardest water—no clogging in nozzle.**

Control weeds in corn, flax, small grains, woody plants. Do it the easy chemical way. Spray fence rows, roadsides, ditch banks and cropped land. Use Weedestroy—a dependable product manufactured by agricultural chemists—tested and proved effective during four crop seasons. It costs less to use the best. Ask your dealer for Weedestroy, spray 'em—Weedestroy kills 'em.

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**Complete formulations of DDT, Toxaphene and Chlordane.**
***WRITE FOR FULL INFORMATION ON ALL YOUR CHEMICAL NEEDS***

*DEALERS:* Act now! Get lined up for your Agricultural Chemicals.
*SEND* for merchandising plan offering complete line of Agricultural Chemicals.

**RIVERDALE CHEMICAL COMPANY · HARVEY, ILLINOIS**

Picks up windrowed hay, chops and drops it into wagon.

**GEHL**
SINCE 1859
PRONOUNCE IT "GALE"

*Why farmers switch*
**to the GEHL FORAGE HARVESTER!**

Seeing is believing, and many farmers are switching to the Gehl Forage Harvester after witnessing its superior performance. It's quality built by experienced specialists in feed-cutting machinery. Thousands in use.

Like those famous Gehl feed cutters and silo fillers used ever since the first silos came, Gehl Forage Harvester has a cutting mechanism that REALLY CUTS . . . clean, uniform and fast. Does a swell job on windrowed hay or combined straw. Makes haying an amazingly fast job, done much easier and cheaper. One man operates it. Puts it where you want it in half the space. With row-crop attachment, makes the same savings in filling silos. Makes silage that packs well and keeps well. Separate blower sends the forage to silo or any part of mow. Equipped with own engine, or with power take-off.

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Dept MB-160, West Bend, Wis.

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With blower attachment unloading grain into a bin.

**HAULS, UNLOADS, BLOWS**

Unloading into hog self-feeders.

**THE NORTH AMERICAN**
**GRAIN-O-VATOR**

Unloads at 50 bushels per minute. Delivers as high as 50 feet into silo. Time tested and farm tested. A wagon that not only hauls but works.

**EVERY FARM SHOULD HAVE ONE**

**DODGEN & CO.** FORMERLY J. B. SALES
FORT DODGE, IOWA
WRITE FOR NEW ILLUSTRATED FOLDER—NO OBLIGATION


# Voice of the Farm

## Thinks Some Farms Rent Too High

To the Editor: I see where one of your readers thinks tenants should put up some kind of security. I think some landlords should put up security when they have a good renter.

Many landlords want too much rent, as some houses and barns are just sheds. Then they want to to tell you how to farm.

If the landlords would make a few repairs as needed, it would not cost so much in one lump sum, and the buildings would last longer. — Reader, Lyon County, Minnesota.

**And they might attract better tenants, too.—Editor.**

## Wants Landlord To Post Bond, Too

To the Editor: I agree that tenants should put up bonds, and I will go farther and say a landowner should put up three times as much as the tenant.

I rented in Iowa for 26 years, and I know what a tenant has to go thru. I had a house where the snow would blow thru on the children's bed. I had barns where cows froze their teats and calves lost their tails. No place to raise pigs except straw-piles; fences you couldn't keep your stock in to save your life.

The day I bought my present farm was the best day in my life.

I don't say all landlords are that way, but for every poor renter there is a poor landlord. The kind that kicks is usually the guy who fell heir to a farm or money, and thinks he can go to town and live a retired life. To make it work, he has to squeeze the tenant and rob his farm. — C. M. Cox, Wabasha county, Minnesota.

**Might be a good idea to protect both good tenants and good landlords.—Editor.**

## He's Tired of Mud Roads, Too

To the Editor: Just finished reading Mrs. R. E. Newcomer's article, "Farmers Are Tired of Mud Roads," and I would like to put in my two cents' worth.

When our officials get any money for roads, what do they do with it? They go over on the gravel and grade and grass and spend good money making some corner more pretty to look at. It's all "to heck with the guys on the mud—that's just their hard luck."

I think some of the big shots are having a good time at our expense. I'll believe that until somebody shows me different.

Iowa has the best farm production in the world and the poorest roads on which to get it to town. Some of our "gravel" roads are nothing but mud with a little lime—not crushed rock—spread over them.—Clarence Phillips, Jr., Van Buren County, Iowa.

**What's the answer? Higher taxes? Fewer roads? New "big shots"?—Editor.**


**MAKES POST HOLE DIGGING *EASY!***

**MOES MOLE POST HOLE DIGGER**

You can dig post holes for an entire new fence without leaving your tractor seat. Here's all you do. Drive tractor into position. Lower auger and watch it dig the post hole to the required depth. Raise the auger and move to the next position. It's fast and easy.

Low in cost, the MOES MOLE attaches to tractor in a jiffy. Digs a nine inch hole three feet deep in less than a minute. Adjustable belt drive eliminates gears and universal joints; prevents damage when striking hidden rocks. Will give years of trouble free service.

**Write for FREE bulletin today!**

**MOE MFG. CO.**
MONTEVIDEO Dept. C MINNESOTA

**A 'Field Tested' Trailer**

WEAREVER is the new "field-tested" trailer — husky frame — shock-absorbing leaf springs — carbon steel bar (not hollow) axle — special 16 x 4.50 wheels, a sturdy basic trailer unit.

At a Pre-War Price That Scoops the Market **$89.50**

Rolls fast as your car or pickup truck on *precision*-ground bearings No side-sway because of the V-shaped attaching bar. Arrives in rugged shipping container, knocked down ready for quick assembly.

Only WEAREVER has all these quality features — yet it undersells the market.

*Write for FREE booklet describing WEAREVER's "field-tested" design and telling how one can be sent you or your dealer with a money-back guarantee.*

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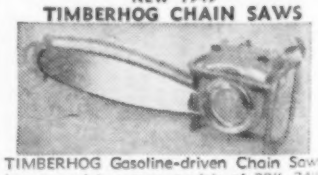
NEW 1949
**TIMBERHOG CHAIN SAWS**



TIMBERHOG Gasoline-driven Chain Saws in one and two-man models of 20", 24", 30" and 36" cutting capacities . . . equipped with long life, chrome-plated chains . . . guaranteed rebuilt saws at reduced prices. See nearest dealer or write direct to:

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**FOR SALE**—HIGH SPEED ROAD GEAR ATTACHMENT. 15 miles per hour, easy to install, to fit John Deere Tractors A and B, also McCormick-Deering, Regular Farmall F20 and F30 Tractors.

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# HUDSON'S GREAT ON THE FARM

Harry J. Thornwall

"I'm sold on my new Hudson," says Harry Thornwall of near Maxwell, Iowa. "It's a beauty, and you can't beat it for easy driving and riding." Mr. Thornwall bought his Hudson from the Hudson Jones Automobile Company, in Des Moines.

**Hudson Jones can serve your automobile needs, too. You'll like the extra room and power that is yours with Hudson. For a free demonstration or literature on Hudson's "Modern design for '49" just send a post card to Hudson Jones, 1408 Locust, Des Moines. They will take good care of you . . .** *for Hudson Jones serves all Iowa.*



GOOD FARMING PAYS

New Patent Greatly Improves Work

New

WESTERN SPROCKET PACKER & MULCHER

It pulverizes, mulches and firms soil deep as plowed BETTER THAN EVER BEFORE. Saves time, labor and horse-power preparing ideal seedbed. Leaves surface mulch without grooves, which greatly helps to prevent washing. This seedbed conserves moisture, saves seed because more of the seeds grow; and helps to increase yields of all crops. Great also for rolling in clover and grass seed and breaking crust on winter wheat in spring. Find out why it does the work so much better, easier and faster. Be sure you get the genuine WESTERN. Write for Catalog and freight-paid prices direct to you.

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LADINO CLOVER
BEST PERENNIAL
PASTURE SEEDS

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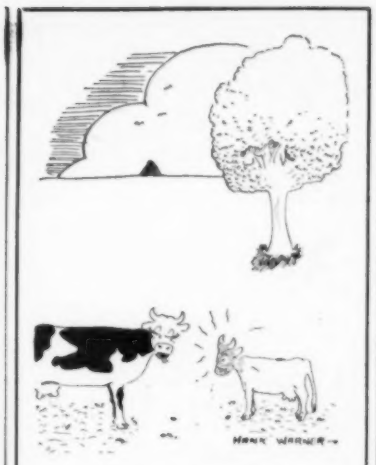


"Hello, Half-Pint."

## Laundry In The Living-Room?

To the Editor: Does any landlord's wife ever do a weekly wash in the living-room? I can imagine—on a plush rug.

Does her teakettle freeze solid on the stove? A person can't stay up all night and keep a fire!

Does her basement fill up with four feet of water when there is lots of rain?

I have a drafty porch that's hard to heat. We have one storm window.

We even had to pay for half the cement to get a chimney repaired. —Mrs. H. B., Butler County, Iowa.

**Do all landlords have plush rugs?—Editor.**

## Doesn't Like Slap At Minorities

To the Editor: In regard to your poll on the question of whether any group is getting too much economic power:

It seems pitiful that here in Iowa, where we are supposed to have a fairly adequate educational system, we should have even 18 per cent of the people pointing to Jews or Catholics or Negroes—or any minority group.

I don't understand the Chickasaw county woman who thinks that "any group deserves the kind of treatment it gets—if the members behave themselves as they should they'll be treated all right."

I presume she feels that Christ and his minority group got what they deserved. If Christ had "behaved himself," he probably would not have been crucified!—Mrs. O. D. Klein, Hardin County, Iowa.

**The disease of prejudice is hard to cure.—Editor.**

## Drop Atomic Bomb On Moscow?

To the Editor: We'll have to use the atomic bomb to show Russia she is not ruler of the world. The place to drop it is on Moscow.

Joe Stalin has threatened our government and institutions thru the Communist party for 35 years. —M. B. Oliver, Fremont County, Iowa.

**Is spilling the blood of hundreds of thousands of Russians and Americans the only way to settle our arguments?—Editor.**

**Unsigned letters can't be used in "Voice of the Farm." Your name won't be printed if you don't want it to be. But it must be on your letter.**

Sez Zeke: "I can afford fishin', on this sunny morn, I make lots of money—with BLENN on my corn"

Blenn
Swift's Specialized Crop Maker

Maybe Zeke can afford to go fishing in the busy season—some of us can't. But farmers who use BLENN, *Swift's specialized crop maker*, worry less about their corn and other grain crops. BLENN is specially formulated to help produce higher yields of better-quality grain. It furnishes the balanced combination of growth elements corn and other grains require. It helps promote higher yields that pay off in extra dollars.

Users of BLENN tell of the big difference BLENN can make. They see crops that start strong—grow uniformly—that have bigger ears or heads filled with plumper kernels. For higher-than-usual yields, feed your corn and other grains with BLENN this year. Order your supply today from your Authorized Swift Agent.

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2-WAY FOLDING BLOWER

The Model "C" Smalley Forage and Grain Blower folds two ways, simple as closing a jack knife.

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- ECONOMICAL!
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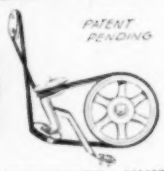
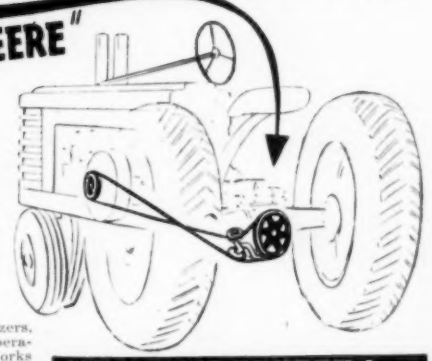
- EASY TO INSTALL!

THIS IS THE NEW LIVE POWER UNIT!



The HEIKEN LIVE-POWER UNIT simplifies hydraulic lifting operations. Keeps live lifting power in your pump independent of clutch and ready for immediate use. Imagine operating your loader, stacker, hydraulic plows, bulldozers, etc., without shifting! Saves time in operation and wear on motor and clutch. Works from flywheel to power take-off to pump. **Fits John Deere Tractor Models A, B and G. EASILY INSTALLED** by one man in a few minutes. No holes to drill—only 4 bolts and one set screw to assemble. Patent Pending. Will cut hours off your lifting jobs. Write for **low prices** and **free** information today!

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MAKE OF TRACTOR .....

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FOR OLD MODEL JOHN DEERE A OR B
FOR FARMALL F-20, F-30 & REGULAR MODEL

NEW Behlen GEAR BOX

*Here it is* . . . a real speed gear for these fine old tractors. Go 9 and 15 m.p.h. on your old model John Deere A or B with a New Behlen Gear Box. Two separate, additional speeds. On Farmall F-20, F-30, or Regular Model, you can do 14 to 15 m.p.h., or if you prefer, you can have 10 m.p.h. gear box for the F-20 or Regular Model. Installed with or without Lift-All Pump.

Behlen Gear Box really cuts tractor time. No more tiresome inching along when you can use speed. Helps do many more jobs in a day. Ideal for bucking hay, rotary hoes, long hauls, etc. Does not interfere with present gears. Bring your old tractor up-to-date with a New Behlen Gear Box.

Close-up of Behlen Gear Box on John Deere.

**For Farmall H or M—Useful Middle Gear**

Equip your H or M for all 'round work. New Behlen Gear Box adds handy in-between speed of 10 m.p.h. Not too fast, not too slow for many field jobs. If you prefer, you can have 7 m.p.h. gear box.

*Write today for literature, where to buy. In writing, please indicate tractor you are interested in.*

**Behlen Manufacturing Co., Dept. 702, Columbus, Nebr.**



## BUY NOW FOR SPRING BUILDING

Unloading clay face tile on his farm, this farmer is one of many in Iowa who are wisely looking ahead to spring building. Brick and tile plants in this region are running full production throughout the winter making possible reasonable prompt delivery of clay face tile during the winter months. Tremendous demands for Structural Clay products in the spring will again cause unavoidable delays in delivery. Because clay face tile won't burn, won't rot and is unaffected by weather there is no problem of storing this material on the farm until ready to build. Ask your local lumber dealer about getting winter delivery of everlasting, economical clay face tile for better farm buildings. Write for free booklets: ☐ Plans for Modern Clay Tile Farm Buildings. ☐ Tile Drainage for the Farm. Dept. W219, Structural Clay Products Institute, Ames, Iowa.



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And they get *better* tractor operation . . . . with the Sherman Step-Up Transmission in their tractors.

You can do the same. With the "Step-Up" you can work more acres per day at a substantial per-acre saving in gas, oil, and engine wear.

Ask your dealer to let you see the Sherman chart. It shows you what extra working gears will do for you on your own farm. See your tractor dealer today, or write for details.

**NOW AVAILABLE FOR**

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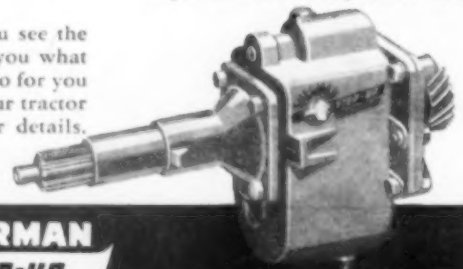
***Pays for itself many times over***



SHERMAN STEP-UP TRANSMISSION

SHERMAN PRODUCTS, INC.
ROYAL OAK, MICHIGAN


# SAVE YOUR LIFE!

**Here's the story of one of those little accidents about which it's easy to say: "It can't happen here." But this one really did happen—just as it's described here by N. J. Wardle, farm safety specialist at Iowa State College.**

"RONNIE, you'd better milk out Rose this morning. That will make 11 cows in the string now. As good as she was as a heifer, she should be even better now."

Ronnie had been hoping his dad would get rid of Rose. She had always irritated him. Each time he had put the milker on her as a heifer, she had moved her right leg forward. This had always bothered Ronnie.

Now that she was fresh again, he decided he would do as he had done before: Crack her on the leg to make her move it back.

When Ronnie came to Rose that morning, he bent down to wash her udder. That leg started to move. Then . . . the next thing he knew he was picking himself up in the back of the barn.

"What happened?" his dad hollered.

"Oh, Rose kicked me."

"How come?"

"I dunno," said Ronnie. "I was just washing her udder."

But they never again were able to work with Rose without hobbling her. Ronnie's father became convinced that she was just a mean cow. After a couple of years of hobbling, he finally sold her. Ronnie, of course, knew what made the cow mean.

**Would you call this an "unpreventable" accident? How many accidents do you suppose have a similar basis? Is any animal naturally mean? Or is it the way we treat them?**

The training and care you give young animals has a lot to do with the way they will react to people the rest of their lives:

Animals kick, strike or bite only in self-defense against a real or imagined injury. Kindness and good care always pay big dividends—not only in cash, but in safe living for the owner, too.

## Propose U. S. Aid For Farmers' Roads

**Farmers on mud roads are the forgotten people as far as federal road building is concerned.**

Federal aid is given for the building of primary roads and for secondary roads. But that's all.

Now, two United States senators propose to extend federal aid to strictly rural roads. Senators John C. Tennis, of Mississippi, and Milton Young, of North Dakota, have introduced a bill which would set up standards for farmers' roads and provide road-building funds.

The bill would eliminate some of the specification requirements for secondary roads, making them cheaper to build.

Funds provided by the federal government would have to be matched by local governments.


## FROZEN FISH, FRUITS and VEGETABLES

**FISH**

| | |
|---|---|
| Perch, Caught from Local Lakes | 25c lb. |
| Halibut | 30c lb. |
| Halibut Trimmings | 15c lb. |
| Red Salmon | 40c lb. |
| Yellow Pike, Dressed | 35c lb. |
| White Fish, Dressed | 30c lb. |
| Rock Bass | 25c lb. |
| Bullheads, Skinned Jumbo | 30c lb. |
| Pike Caught from Local Lakes | 25c lb. |

**SPECIAL**

| | |
|---|---|
| Jumbo Smelt—Packed 10 lb. cartons | 28c lb. |
| Scallops—Packed 1 lb. cartons | 60c pkg. |
| Oysters, Stewing—Packed in Pints | 60c pt. |
| Oysters, Large Select—Packed in Pints | 70c pt. |
| Gorton's Cod Fish, Salted—12 lb. ctns. | 45c lb. |

**FILLETS**

Packed 10 lb. Cartons

| | |
|---|---|
| Ocean Fillets | 24c lb. |
| Pike Fillets Caught from Local Lakes | 60c lb. |
| Bayfish Fillets | 25c lb. |

**SMOKED FISH**

| | |
|---|---|
| Packed 5 lb. Cartons | $2.25 ctn. |
| Blind Robins (10 lb. ctns.) | 3.25 ctn. |

**FROZEN FRUITS—Sweetened**

| | |
|---|---|
| Apricots—Packed 10 lb. ctns. | 18c lb. |
| Pineapple—Packed 4 lb. ctns. | 20c lb. |
| Peaches—Packed 10 lb. ctns. | 18c lb. |
| Grapefruit Juice (Unsweetened), 2lb. ctns. | 12c lb. |
| Strawberries—Packed 6½ lb. tins | 38c lb. |
| Black Cherries—Packed 1 lb. ctns. | 22c pkg. |
| Prune Plums (Unsweetened) 12 oz. ctns. | 14c pkg. |
| Pineapple, Crushed—1 lb. ctns. | 23c pkg. |
| Peaches—Packed 1 lb. cartons | 25c pkg. |
| Cantaloupe or Honey Dew Balls (Unsweetened)—Packed 10 oz. ctns. | 25c pkg. |
| Sliced Apples—Packed 30 lb. tins | 12c lb. |

**FROZEN VEGETABLES**

| | |
|---|---|
| Asparagus Cuts and Tips—2½ lb. ctns. | 39c lb. |
| Broccoli Cuts—Packed 5 lb. ctns. | 24c lb. |
| Brussels Sprouts—Packed 2 lb. ctns. | 38c lb. |
| Lima Beans | 36c lb. |
| Peas—Packed 5 lb. ctns. | 23c lb. |
| Spinach—Packed 2½ lb. ctns. | 23c lb. |
| Asparagus Spears—12 oz. packages | 45c pkg. |
| Brussels Sprouts—10 oz. packages | 33c pkg. |
| Mixed Vegetables—12 oz. packages | 20c pkg. |
| Broccoli Spears—10 oz. packages | 28c pkg. |
| Peas—12 oz. packages | 20c pkg. |

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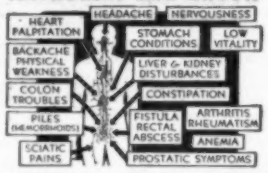


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Easy-To-Use, Low-Cost "FARM-ROD"
● Clears field or house tile of roots, mud and other stoppage.
Runs by HAND POWER or TRACTOR Take-Off
● Helps avoid crop loss from flooded fields.
No unnecessary digging. Powerful revolving cork-screw cutter cleans tile 3" or larger in diameter. Handy 25-foot sections clean five to several hundred feet from one opening. Sold only by mail order. Act now. Have ready for Spring use. Write for FREE folder and special price, today.
ROTO-ROOTER CORP.
Desk 10C DES MOINES 14, IOWA



"SUPER" DOOR LATCH

fits barns, coops, sheds, garages, etc. Easiest to open and close. Frost and trouble proof.

Post Paid Price $1.35

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**NEW OAT HULLER and CORN CRACKER**

GOLD NUGGET OAT HULLER hulls 40 to 60 lbs. per hr. 4 to 6 H.P. Cracks corn—2 grades, wheat, beans, barley, etc. Get double value. Grow quick bone and muscle on all livestock and poultry. LOW PRICE. Write for circular "Road to Frost or Road to Less." (Why waste your oat and corn crop?) Process it yourself better at lower cost.

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Box WF19 Waterloo, Iowa



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Longest profit on your feathers. Ship to a pillow manufacturer established 48 years with plants in three major cities. Write for price list. Prompt remittance.

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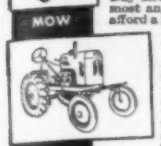
SAVE TIME, WORK, MONEY!
**SHAW "DU-ALL"**
and "PEPPY PAL" TRACTORS

PLOW

CULTIVATE

MOW



RIDE

These rugged walking or riding tractors ideal for farm, truck garden, orchard, poultry farm. Operate on a few cents an hour. A child can handle them.
**DO DOZENS OF JOBS** — The Shaw Du-All or Peppy-Pal does many jobs quickly and easily. Plows, cultivates, harrows, disks, bulldozes, sprays, hauls, grinds, and saws wood.
**BUILT FOR RUGGED WORK**—Sturdy, extra-strength construction means low upkeep, long life. Year's guarantee.
**LOW FACTORY PRICES**
Buy direct or through your dealer! Almost anyone who owns a garden can afford a Shaw Du-All or Peppy Pal. Mass production holds prices down—quality up.
**RIDING TRACTORS**
4 models, from 5 to 12½ H.P., 53 in. wheelbase, 36 in. wide, 24 in. plant clearance. Hand or electric starter. Improved steering device, brakes enclosed in differential housing shaft. Heavier frame and bearings. Standard hitch for trailers and wagons. Plow, harrow, cultivator, cutter bar, snow plow, bulldozer available.
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and
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**AT LAST!** A simple, Long Life, inexpensive wagon unloader. Complete (3) wagon setup costs less than others charge for one. Save money! Save your back!

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For the latest scientific facts reveal that, in many persons, caffein in both coffee and tea *tends to produce harmful stomach acidity*, as well as *nervousness*, and *sleepless nights!* While many people can drink coffee or tea without ill-effect, *many others can't.*

So if you suffer heartburn, indigestion, sleeplessness, make this test: *give up coffee—give up tea—drink* POSTUM *exclusively for 30 days—judge by results!* Remember, POSTUM contains no caffein or other drug—nothing that can possibly cause indigestion, nervousness, sleeplessness! Ask your grocer today for INSTANT POSTUM — A Vigorous Drink made from Healthful Wheat and Bran.



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New disease and bug-resistant varieties from Exp. Stations. Eyes scientifically cut from *Certified Stocks.* Specially treated. Enormous yields reported. Guaranteed to reach you in growing condition. *Mailed at planting time*

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TRACTOR PARTS, NEW AND USED. All makes and models. Write for free 1949 catalog.
**BURLINGTON TRACTOR WRECKING CO.**
BURLINGTON, IOWA



## Buy a Bond Today!


# Big Or Little Schools?

RECENTLY, we asked readers to tell us how they feel about school reorganization. Following are a few opinions. Watch future issues for others. And write a short letter telling us what you think.

---

**To the Editor: We do not believe that redistricting the school districts in order to have a few high schools in a county will ever equalize the advantages of the children in a small community with those in a large one.**

For a child who has to ride two or three hours before and after school has no free time. This in itself is apt to make him dislike school and affect him physically.

Furthermore, the large schools are already crammed to capacity. And, as long as there is a shortage of teachers, we are going to have poor teachers, even in large schools. — Mr. and Mrs. Harlan Shumaker, Cedar County, Iowa.

---

**To the Editor: The distance makes not as much difference as the condition of the road and of the school.**

In our case, by going 15 miles, our children can attend the county-seat school and get any training they could wish. And the road is good, with no hills.

As it is, they go five miles across the river and over two big hills. And they get very little choice of subjects.

So we feel that in our case distance isn't much of an objection. Besides, our small school costs more to run than any other school in the county.—Mr. and Mrs. Ronald Kennedy, Hamilton County, Iowa.

---

**To the Editor: I am not in favor of having only four or five big schools in the county. The children will have too far to go. A 10-mile trip is long enough for any child.**

We rural people are very interested in school activities, especially baseball and basketball. If we had to drive 20 or 30 miles to a game, we just couldn't go. Our children would have to leave so early to play that we would have all the work to do ourselves.

Most of our schools are well equipped, and it would be a terrible waste of tax-payers' money to have them abandoned and new schools built. Taxes are high enough now.—Mrs. Thomas Gibney, Benton County, Iowa.

**"I was bringing home these lightning rods and got caught in a storm."**

George Burkholder started terracing his Abilene, Kansas farm in 1939. He had to work *hard* to prevent rich topsoil from flowing away from his farm down deep-rutted gullies and trench-like gullies.

To further save the real "wealth" of his farm — the topsoil — he established waterways and a farm pond. To replenish vital minerals taken from the soil by years of cultivation, he has carried out an extensive crop rotation program. . . .

Crop rotation, contour farming, terracing, soil testing and fertilization are the ways "Soil Savers" work, and happier homes, more property, and richer land are the *profits* they earn.

Ask your Farm Advisor how you too can be a "Soil Saver." In many ways . . . *It Pays!*

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Agents and Dealers: Good opportunity. Write Immediately.

Rolls or unrolls wire mechanically! Handles barbed or check row wire without snarling or back-lash. Simply drive tractor down fence row. Attach or detach in seconds! Fits row crop, Ford, Ferguson tractors. Only one reel required. Satisfaction guaranteed or money back. Reasonable price. Write today for

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Gentlemen: Please send "80 Rods in 3 Minutes" folder and prices on EasyRoll Wire Winder.

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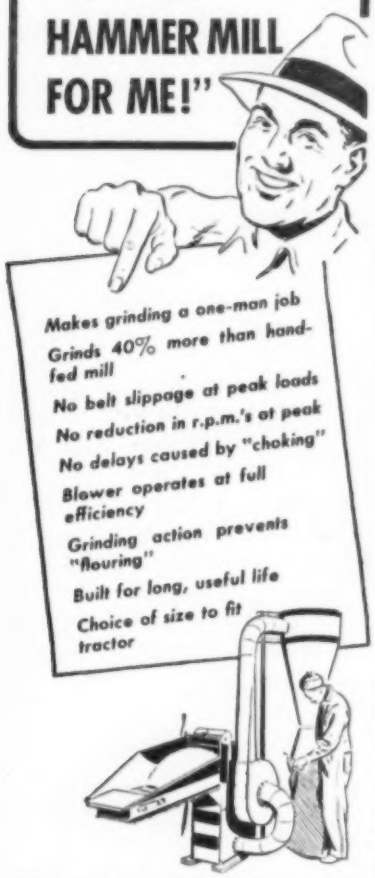


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**Traveling Table Hammer Mill**

**Planning to feed stock or poultry? Let a Fairbanks-Morse traveling table hammer mill help you! It operates efficiently, with less manpower, cuts grinding costs—steps up profits.**

**It is designed for durability, and farm tested. With the traveling table, it produces peak volume without overloading; increases mill capacity; and enables *one* man to handle the complete grinding job!**

**Your Fairbanks-Morse dealer will be glad to demonstrate this hammer mill. If you do not know a Fairbanks-Morse dealer, mail the coupon today.**

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Gentlemen: Please send fully descriptive folder of Fairbanks-Morse traveling table hammer mill—and the free booklet, "Grinding of Grain and Cobs."

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# Pruning Job Helps Fruit Crop

*Apples, Peaches, Grapes Need Attention, Says Warren County, Iowa, Fruit Grower*

SUCCESSFUL fruit growing depends upon three very important factors: Selection of varieties and their planting, careful pruning and thoro spraying.

The pruning task is now in season. Wounds made this spring will remain exposed but a short time before the healing process begins.

Careful cutting back at planting time gives the trees a good chance to develop symmetrical tops. Three to five outward-growing side branches are enough for a two or three-year-old tree. A cut-back central leader helps to overcome the tendency for some trees to grow skyward.

**Regular pruning each year should include the removal of inner-growing, criss-cross branches that would eventually compete for growing space.**

It is easy to leave too many scaffold or main branches. They should be spaced around the tree at 6 to 12-inch intervals.

When trees reach fruiting age, they need only light pruning to prevent thick branches from shading the fruit and hindering the natural coloring and flavor.

Fruit trees that are naturally inclined to grow skyward, like most pears, Whitney crab and Transparent apple, may be somewhat dehorned by cutting off the top to an outward-growing branch that is at least half as large as the one removed.

Commercial growers try to keep their trees as broad as they are tall. This makes for more effective spraying, and the fruit is easier to reach with ladders of medium length.

Peach trees require little pruning other than keeping the deadwood out. When the bearing trees are full of live fruit buds is a good time to prune rather heavily. This is a simple way of thinning fruit long before the blossoms have appeared.

Grapevines are different. They bear their fine fruit on spurs that come on last season's growth of canes. When the vines are planted, there should be but one cane, which should be well staked, so it will grow upright.

The second-year canes may be tied to the lower wire in both directions. The third-year canes can be arranged on the top wire of the trellis.

The old style of pruning was to cut back the canes to two or three buds of last year's growth. But it has been found that greater yields of better fruit can be harvested from four to six long canes of six to ten buds rather than on numerous short spurs.

So the annual job is to remove the surplus growth after leaving a few well-placed long canes of last year's growth. This plan makes it much easier to keep the vines closer to home base.

**Shrubbery around the house and yard should receive its fair share of pruning attention, too. Most of the flowering shrubs need their pruning immediately after blooming.**

Removel of some of the oldest branches will enable the shrubs to make new growth in plenty of time for the next blooming period.

Bridal wreath (spirea) will retain its graceful, drooping habit of growth if you remove only a few of the older stems soon after their blooming period.

If this shrub is too tall for its location, it should be removed and replaced by one of the proper height, rather than try to lower the shrub by improper pruning.

Good tools are needed for best results in pruning. A swivel-bladed pruning saw, a one-hand pruner and the long-handled, more powerful pruner are "must" equipment. — Victor Felter, Warren County, Iowa.

**It Costs** real money to bring the big gullies under control in the Little Sioux project in northwestern Iowa (see page 26). This picture was taken from atop one big earth dam, shows another dam at head of gully. County road which now crosses the dam used to require $1,500 every two years to keep it in condition at this spot.


**Another Beneficial VIGORTONE Product . .**

**FENTEX**

**. . . an effective aid in combating NUTRITIONAL ANEMIA in suckling pigs and calves**

FENTEX is hand applied and massaged on the mammary gland area of brood sows during the nursing period. Suckling pigs thus receive FENTEX internally when nursing . . . thereby providing an effective aid in combating nutritional anemia. Lubricating qualities of FENTEX tend to keep udder and teats soft and sound.

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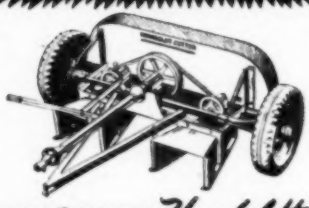

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The liver should pour out about 2 pints of bile juice into your bowels every day. If this bile is not flowing freely, your food may not digest. It may just decay in the bowels. Then gas bloats up your stomach. You get constipated. You feel sour, sunk and the world looks punk.

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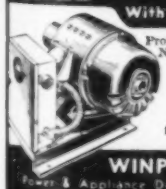

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Now! A new 180 amp. welder for ONLY $149.50

Build your own machinery with this 180 amp. welder . . . a million uses on the farm . . . fully guaranteed 10 year protection plan. Twin carbon torch completes unit. Welds anything. $24.75 extra. Free literature. Dealer and salesmen inquiries invited.

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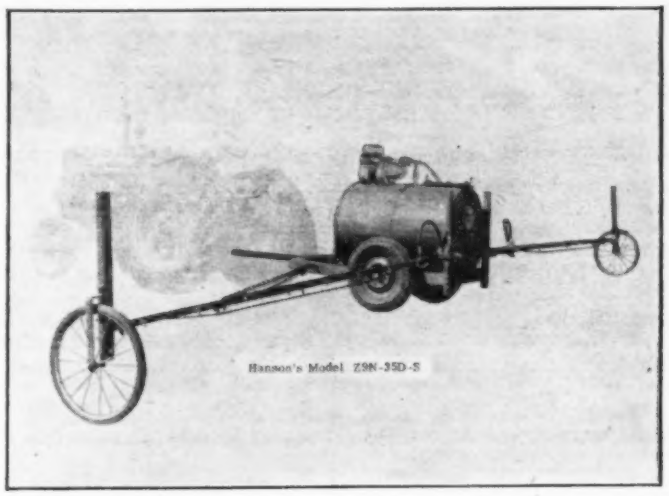
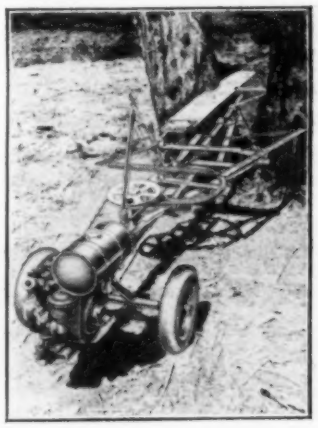
# What's New?

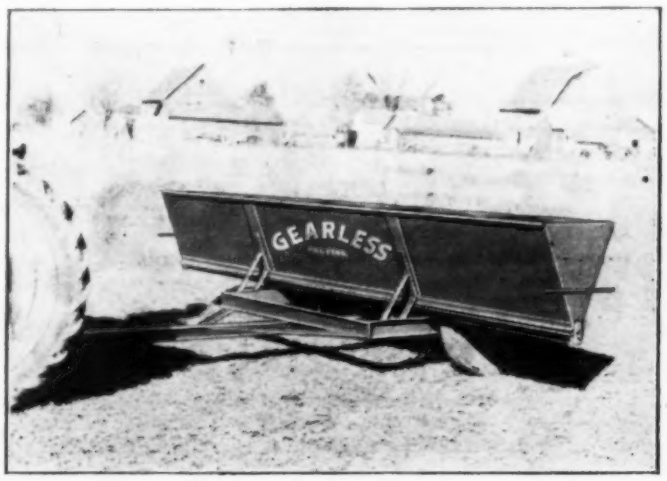



**New Spraying Units** by one company include one with 35-foot boom supported at each end. The tank has a capacity of 200 gallons. Self-contained unit has resisto-rust boom. Other units made by this company have mono-wheel supports under the tank and no wheels at the end of the boom. Capacity of the tanks is from 50 gallons up. Booms fold up for passage thru gates. Pressures available from zero to 400 pounds. Manufactured by the Howard Hanson Company.



**Saws Trees** down, then saws them into blocks of any length desired. Simple operation changes saw from vertical to horizontal. Has 1½ horse-power air-cooled gasoline engine. All-steel construction, but weighs less than 160 pounds complete. One man can operate saw in either position. Made by Rocklin Mfg. Co.

**Windshield** on this tractor cab has side wings to protect driver on chilly days. But the whole windshield lies forward for passing under low doors. Body side wings fold forward, too, for easy mounting. Pockets are provided for gloves, etc. It is known as the Half-Cab. Made by the original Tractor Cab Co.




**Shaker Principle** is used in this fertilizer spreader. No gears for abrasive substances to wear out. Plates in bottom of box are vibrated by shaker arms which attach to wheel hubs. Flow can be adjusted down to 75 pounds per acre. Spreads phosphates, commercial fertilizer or lime (when lime is dry and the grind is regular). Made by C. J. Turley Co.


FOR BIGGER BETTER *Spring* LITTERS

BALANCE
**Sow Rations NOW**
with genuine
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**Minral Meal**

Brood sows need plenty of proteins, vitamins, minerals—RIGHT NOW—to build big spring litters of healthy, husky, vigorous pigs. Tests show you can save AN EXTRA PIG PER LITTER if you fortify sows' grain rations with a balanced supplement. So feed the proven

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". . . plenty of pressure every time we turn a faucet, anywhere on the farm. The MONITOR is always on the job and takes less power."

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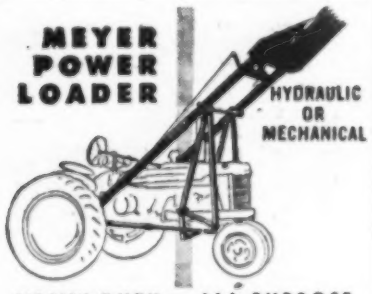


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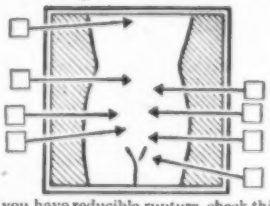

If you have reducible rupture, check this diagram and mail immediately. You will receive in reply the most welcome news you ever had.

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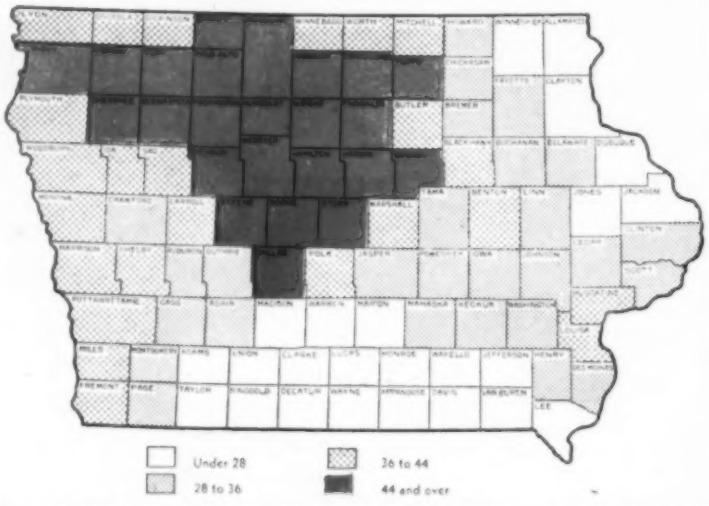
TRACTOR PARTS Guaranteed New, Used Tractor Parts for most makes. 1949 Catalog FREE. Write RELIABLE TRACTOR PARTS CO., Hastings 26, Nebraska, or Box 777, Sioux City, Iowa.


# How Iowa Uses Land

A BIRD'S-EYE view of crop production patterns in Iowa is given in a series of maps just published by the Iowa Department of Agriculture. Called "A Graphic Summary of Iowa Land Utilization," the map series makes use of figures compiled by the Iowa Crop and Livestock Reporting Service.

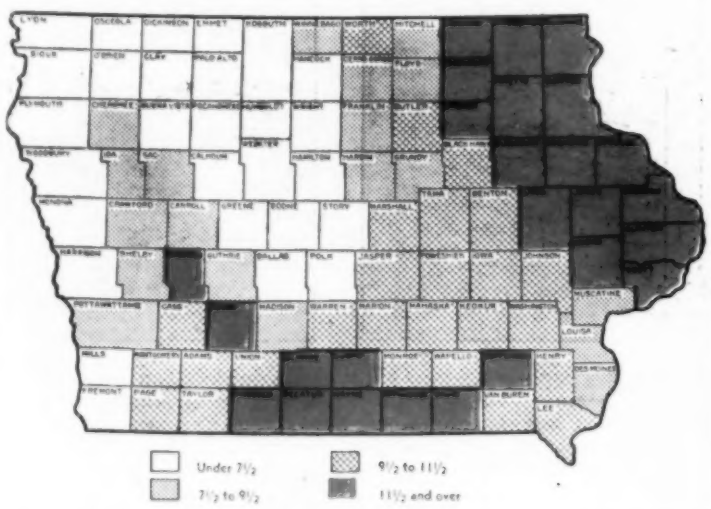
The three maps reproduced below show where Iowa's row-crop, hay and pasture land is concentrated. Percentage figures are averages for 1943-1947.

PER CENT OF FARM LAND IN CORN AND SOYBEANS



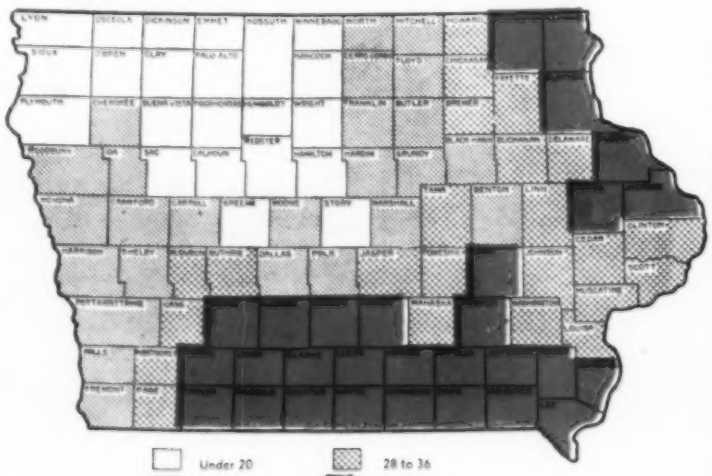

**Row Crops** are grown on nearly half of all farm land in northern and western Iowa. Top row-crop county is Calhoun, with 54.3 per cent of land in corn and beans. Other highs: Greene (54.1); Pocahontas (53); Hamilton, Wright, Humboldt, Webster, Story (50-52).

PER CENT OF FARM LAND IN HAY CROPS




**Hay Crops** are grown on 10 to 15 per cent of farm land in most of northeastern and southern Iowa. Dubuque county is high, with 15.6 per cent of land in hay. Others: Wayne (15); Winneshiek (14.4); Appanoose, Delaware, Clayton, Howard, Jones, Jackson (13-14).

PER CENT OF FARM LAND IN PASTURE




**Pasture** occupies between 30 and 60 per cent of all farm land in northeastern and southern Iowa. Monroe county has 58.7 per cent pasture land. Others over 50 per cent: Van Buren (56.6); Appanoose (54.8); Davis, Jackson, Lucas, Allamakee and Decatur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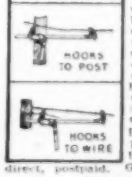


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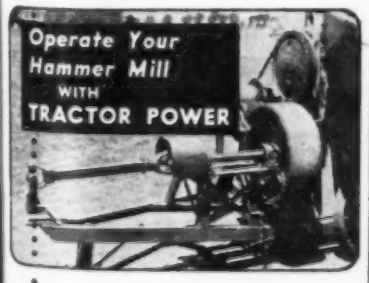


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U. S. SAVINGS BONDS ARE SAFE

# Farm News Briefs

**BURNS BYRAM,** extension director in Tama county, Iowa, since 1933, has resigned to accept a position with Eastern Iowa Artificial Breeding Association.

▲ ▲ ▲

**WILLIAM L. HAWKS,** of Union county, is new PMA (AAA) district fieldman for southwest Iowa. He replaces Clare Becker, Cass county, who resigned to enter private business.

▲ ▲ ▲

**FEBRUARY 19-26** has been designated as "National Future Farmers of America Week," to focus attention on the work of the nation's 7,000 FFA chapters.

▲ ▲ ▲

**FEEDER CATTLE** bought by Iowa farmers in January were 5 per cent more than in 1948. Inshipments of feeder sheep and lambs were 55 per cent above January, 1948.

▲ ▲ ▲

**HONEY PRODUCTION** in Iowa last year was 7,380,000 pounds, lowest on record and 69 per cent below 1947. Average production per colony was only 30 pounds, compared with 96 pounds in 1947.

▲ ▲ ▲

**FOUR-H PIG CLUB** members who did the best job with Poland China projects last year have been rewarded by Iowa Poland China Breeders Association. Cash prizes went to Roy Weigert, Humboldt county, Eugene Mann, Poweshiek county, and Howard Sears, Mahaska county. Six others received medals.

▲ ▲ ▲

**FEDERAL LAND BANKS** last year returned 9¼ million dollars in dividends to national farm loan associations owning stock in the banks. The associations, in turn, paid dividends of $3,690,000 to their members—farmers who have obtained farm loans from the associations.

▲ ▲ ▲

**SALES** of U. S. Savings Bonds in Iowa last year dropped 15 per cent below 1947, tho sales of Series E bonds (the kind most of us buy) were off only 4 per cent. Bond buying went up in just four counties: Adams, Clinton, Palo Alto, Wapello. For the United States as a whole, bond sales set a new peace-time record — 9 per cent above 1947.

▲ ▲ ▲

**AVERAGE SALE PRICE** of Iowa farm land rose only half as much last year as in 1947. The average went up $9 in 1948, to reach $176 per acre. This is just 100 per cent above the $88 per acre average in 1941.

▲ ▲ ▲

**COMING EVENTS:** Feb. 18-19 National Farm Institute, Des Moines (Hotel Fort Des Moines); March 3-4, Iowa Pest Control Conference, Ames; March 10, National Pasture-Forage-Livestock Conference, Omaha (stockyards); March 10-11, Farm Forum, Minneapolis (Hotel Radisson); March 11-12, Iowa Staté Spring Market Hog Show, Cedar Rapids (Hawkeye Downs); March 18-19, Minnesota State Spring Barrow Show, Albert Lea.


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New COATS CORN STALK SHREDDER

This advanced Coats Corn Stalk Shredder will give you bigger crops, and save work, too. Shreds old stalks with one trip through the field. Saves one trip on spring discing. Shredded stalks build up the soil **faster.** You get **bigger** yields. Pulverizes old stalks . . . leaves no place for corn borer worms to hibernate.

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Shredder box enclosed on three sides. Checks dust and debris. ● Wider hoppers get **more** between the rows. ● Easily adjusts from tractor seat. ● Available with swinging hammers or edged knives. ● Famous Coats replaceable spindles. ● Wheels equipped with Timken bearings. ● Quality construction throughout. See what this great Shredder can do for YOU. WRITE for free illustrated circular TODAY!

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STILL THE BEST "ALL PURPOSE" FARM DISINFECTANT

Keep production costs down. Guard against disease and parasites.

Clean, dip and spray. Use Kreso Dip No. 1 freely in buildings and on livestock or on poultry. There is nothing so safe to take its place. Kreso Dip is low in cost . . . one gallon makes 100 gallons of reliable disinfectant. Keep Kreso Dip on hand at all times.

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SIMPLE EFFICIENT

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EASY to mount on front or rear of any tractor, trailer, or wagon box end gate. 16- 20- 24 ft. booms.

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SAVES WORK, TIME, MONEY
*Dig 600 post holes a day sitting on the tractor seat.*

Easy, one man, automatic operation. Digs new holes in old fence lines. Timken roller bearings, self-sharpening, tool steel, tungsten carbide cutter blades cut through hardest earth. Rugged—simple—foolproof. Quickly pays for itself. Write for free illustrated folder.

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TOP QUALITY

# Spotted Poland China Sale

At Sales Pavilion

## Buffalo Center, Iowa, Thurs., March 3rd

PERFECT STYLE
One of the brood sows in our breeding herd

**45 PROFIT MAKING GILTS**

A uniform offering of broody gilts of pleasing type and quality. They are the right kind . . . popular with the farmers, as we sold 85 boars privately this past fall. Bred and fed to turn a quick return for their new owners. Mostly sired by the noted **GOLD ROCK** by the Rocker; others by Jim, he by the Walters boar, Formation. They are mostly bred for the latter half of March through April to 3 exceptionally good boars: namely, **SILVER PRINCE,** an outstanding son of the famous Grandview Prince that has made breed history; **SQUARE LAD** by Supreme Pride, and **PROSPECTOR** by Memories, the proven Carlson herd sire. A selection from a large number and bred and fed so they will make good. If unable to attend send bids to fieldmen or auctioneers; their selections guaranteed to please. Kindly mention this paper when writing for **FREE** catalog.

**BERT S. GEERDES & SON, LAKOTA, IOWA**

Chas. Taylor, Auctioneer Maurice Boney, Fieldman

# Quality Hampshire Sale

HIGHBALL
The great herd boar

Central Fair Grounds

**MARSHALLTOWN, IOWA**
**TUESDAY, MARCH 8th—1:00 P. M.**

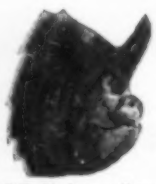
**100 HEAD**
**80 Spring Gilts, 10 Fall Sows, 10 Fall Boars**

One of the best offerings of the year . . . all well grown and sired by **NU-MODEL, CHECKROW, BASESETTER, ACE HIDEAL,** and **POWERHOUSE.** Best in blood lines. Mostly mated to **HIGHBALL,** illustrated here, a big broad boar with extra heavy ham and a son of Fixer, one of the heaviest hammed boars of the breed. Others bred to **K. RATION,** a top son of Knabe's Special; **STYLETTO,** the short-legged son of Stylemaster, and **JACK O' DIAMONDS,** a well balanced grandson of New Idea and Powerhouse. An exceptionally outstanding litter by **STYLEMASTER** and another of like merit by **CHECKROW** from a daughter of Glory Bound. There are 90 bred sows, 80 are spring gilts, 10 fall sows. 60 bred sows are registered and 30 unregistered sows. They will farrow from March 15th through April. Good breeding, excellent quality mated to great boars. 10 high-class early fall boars. The large number affords a wide selection. A FARMER-BREEDER sale. Come. Ask for **FREE** catalog. Kindly mention this publication.

**HOWARD SOORHOLTZ, MELBOURNE, IOWA**

Auctioneer, Clair Mason

# Prize-Winning Berkshires



Held in comfortable sale pavilion on Highway No. 69, north of Ames at

## Story City, Iowa, Mon., Mar. 7th

**35** Choice well-grown gilts, including first and third prize Breeder-feeder litter at Des Moines, a prize winner at Austin and 1st senior gilt at Kansas. Mostly bred to **SENATOR WINSTON,** litter mate to 1947 grand champion barrow over all breeds at Austin, Minn. Others bred to **W. CHIP 3rd** out of Iowa grand champion sow. Best in breeding. Good quality. Come. Ask for **FREE** catalog. Kindly mention this publication. Address

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## Livestock News

The Creston, Iowa, Hereford sale, at Orient, Iowa, on February 7, had a good day and one of the best buying crowds they ever had at one of their sales. They sold 69 head at an average of $311 per head. The 29 bulls made an average of $345, and 36 females made an average of $267. The top of the sale was the eight-year-old bull, Jupiter Domino 8th, consigned by Adolph Beck, and he went to Joe Cipra, Cromwell, Iowa, at $610. Mr. Beck also sold six head of younger bulls at an average of $316 per head. His No. 1 bull went to C. M. Collander, Casey, Iowa, at $400; No 2 to Claud Brown, of Clearfield, Iowa, at $345; No. 4 to Earl Williams, Chariton, Iowa, at $300; No. 5 to Dr. Flickinger, Greenfield, Iowa, at $295. Charlie Wimmer & Son sold five head at an average of $429. Their top bull was Real Type 180th, and he went to Russell Donovan, Scranton, Iowa, at $450. Norman Andrews, Creston, Iowa, took No. 65 at $400. No. 66 went to Doctor Hanson, Winterset, Iowa, at $450, and No. 67 to Carl Menzing, Greenfield, Iowa, at $400. Floyd H. Woods' top bull, Lark's Comprest, went to Joe Eagan, Orient, Iowa, at $500, and his heifer, Miss Lark 19th, went to Ira Reed at $335. Floyd's son, Lyle H. Woods, sold one bull to H. Blanchard, Murray, Iowa, at $365, and another to Victor Rucker, Exira, Iowa, at $325. A. R. Hurley, Winterset, Iowa, sold five very young bulls at an average of $302 per head, and these were very choice. The Chandler Hereford Farm, Chariton, Iowa, sold Hazfort Ruppert to Doctor Flickinger at $500 and Roscoe Ruppert to Earl Reckno, Creston, Iowa, at $515. Wilbur Farris & Sons sold two young bulls, No. 25 to Edward Sonnicut, New Market, Iowa, at $395, and No. 26 to Clifford Rice, Cromwell, Iowa, at $350. C. C. Granfield sold Real Domino C 28th to Leo Madden, Kent, Iowa, at $450. The Ted Hayden bull, Sir Captain, went to Harvey Crill, Corning, Iowa, at $345. Real Intense, consigned by G. P. Henderson, went to Russell Cullen, Mt. Ayr, Iowa, at $400. H. J. Sheriff sold two splendid young bulls at $400 each, one going to Lyde Shirley, Hamburg, Iowa, and the other to John Eagan, Orient, Iowa. The top cow was Queen Domino, and she went to Earl Williams at $290. She was sold by Henry Weinkoetz, Afton, Iowa. Altogether, it was one of the best combination sales of the season. Col. Fred Chandler was the auctioneer in charge of the sale.

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A large crowd gathered in spite of the icy roads and hazardous weather conditions for the Duroc sale of John Geerdes, Everly, Iowa which was held at Spencer, Iowa, on January 27. Modern Designer, 1947 Wisconsin junior champion, was the boar mostly featured in this sale, which saw 48 bred gilts average $184. W. H. Helmke & Sons, Renwick, Iowa, paid the top price of $325 for Lot 1, a daughter of Low Set that had won top awards at some of the leading Missouri fairs. Clarford Williamson, George, Iowa, took Lot 8 at $260. Charles Stuckman, Kirkin, Kan., paid $250 for another, as did Fred Ottinger, Elgin, Ill. Four gilts went to Minnesota and the balance of the offering went to Iowa buyers. John Hall was the auctioneer.

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Due to extremely bad road conditions, a very small attendance arrived for the Jay Manly Chester White sale, held on the farm, near Sac City, Iowa, February 3. It was a buyers' market, and those attending received a world of quality for bargain prices. The 50 bred gilts made an average of $115, with a top figure of $195.

## U. S. Judge In Scotland

High honor of judging the big Scottish Shorthorn show at Perth, Scotland, February 14-15, went this year to L. E. Mathers, Mason City, Ill.

Mathers is the first American to handle the big job alone. One other served under the three-judge system, which was discontinud in 1946.

The Illinois man is a top Shorthorn breeder in his own right, has collected many grand championship ribbons at the International Livestock Exposition and other shows in this country. He is a past president of the American Shorthorn Breeders Association.

## Farm Owners In Iowa

Farm ownership is increasing in the eastern and south-central sections of Iowa, while the rest of the state shows an increase in farm tenancy, according to figuers compiled from farm census reports of 1945, 1946 and 1947.

Farm ownership increased in those districts where ownership was already the greatest, while tenancy went up in the districts which had shown a high percentage of tenants previously.

For example, farms in the south-central district—Madison, Warren, Marion, Union, Clarke, Lucas, Monroe, Ringgold, Decatur, Wayne and Appanoose counties—farmers owned 57.5 per cent of the total acreage in 1945. The increase in ownership, 1945-47, was 2.4 per cent, making this district lead the state in farm ownership, with 59.9 per cent.

At the other end of the scale is the northwest district—Lyon, Osceola, Dickinson, Emmet, Sioux, O'Brien, Clay, Pala Alto, Plymouth, Cherokee, Buena Vista and Pocahontas counties—where only 39.3 per cent of the farm acreage was operator-owned in 1937. In the 1945-47 period, ownership dropped to 37.5 per cent, making this area high in the state for farm tenancy.

Farm ownership over the state has decreased one-half of one per cent in the three years, with 48.8 per cent of the acreage farmer-owned in 1945 and 48.3 per cent in 1947.

## $250,000,000 For Research

Crop scientists of the agricultural experiment station at Iowa State College each year present Iowa farmers with a $250,000,000 bonus.

It is conservatively estimated that the increased value of the new varieties of corn, oats and soybeans developed at the experiment station annually reaches that figure.

The station has long been active in research on hybrid corn, which has had a large part in pushing corn crops in the state above the 600,000,000-bushel mark.

It has also given to farmers a number of new varieties of oats. The latest of these, Clinton, is credited with producing the largest crop in Iowa history during 1948, a year when weather conditions were not the best for growing of oats.

In soybean work, the station helped in the testing and development of Lincoln, which now accounts for 75 per cent of the soybean production in the state. Last year, it released a new variety, Hawkeye, developed at the station. And this spring, it will release to growers a second new variety, called Adams, also a product of breeders at Iowa State.

## Tree-Planting Machine

A tree planting machine will be bought by the Clay County Soil Conservation District in Nebraska. It is expected to encourage farmers to plant more trees, especially during the rush time in spring work.

As plans are now set up, the district will furnish the tractor, tree-planter and two or three men for the operation. A minimum charge will be made for each farm stop. The charge, however, is not expected to average more than two to four cents per tree.

## All-American Hampshires

Three Iowa animals have been named to the 1948 All-American hog team by the Hampshire Swine Registry. The top Iowa Hamps are:

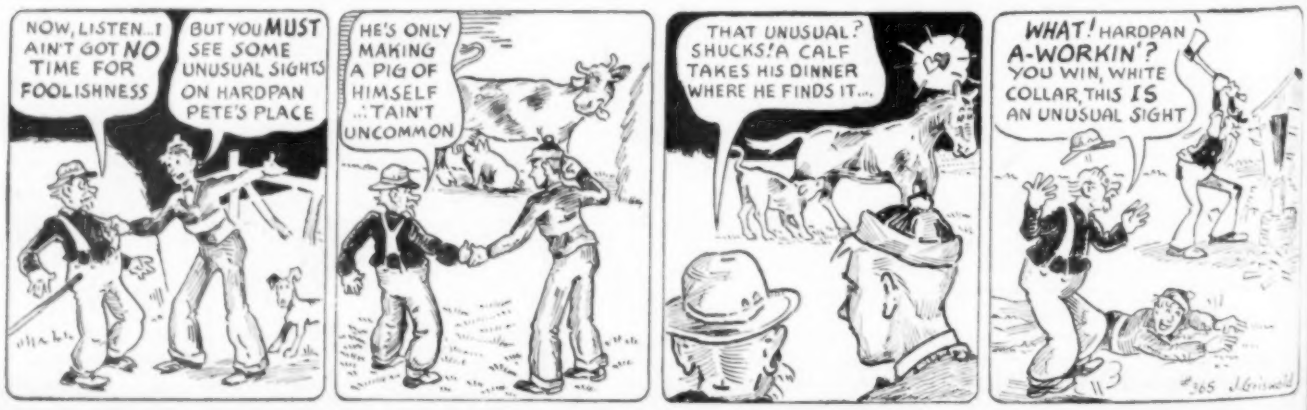
Dynamic News, senior spring boar owned by Robin Lane Farms, Franklin county; Perfect Style, senior yearling sow owned by Maurice Weitz, Hamilton county; Model Beauty Ann, senior spring gilt owned by Fruehauf Farms, Linn county.

## New Shorthorn Secretary

Albert Hamann, Rock Rapids, Iowa, will be the new secretary of the Iowa Shorthorn Breeders Association, and will start work March 1. Mr. Hamann has bred good Shorthorns for many years and is thoroly familiar with the Shorthorn business. He will make a most valuable man for the Iowa Shorthorn breeders. We welcome Mr. Hamann and extend our cooperation.

**HARDPAN PETE**

**Some Reputation You've Got, Pete!**



# Interstate Shorthorn SHOW and SALE

**SHOW**
**9:30 A. M., March 7th**
**SALE**
**12:00 Noon, March 8th**
At Stock Yards Pavilion
**SIOUX CITY, IOWA**
**MARCH 7th & 8th**

## 101 HEAD
**54 BULLS — 47 FEMALES**

Presenting what we consider the greatest array of **SHORTHORN** cattle that has ever been offered at such an outstanding regional show and sale. The offering was selected with care from leading herds in three states. Selling very choice herd bull prospects that could go to the head of any herd. We will have a good selection of deep, thick bulls for the newer breeders, farmers, and ranchmen. Extra weight for age on your coming calf crop will mean extra profit. The females are an exceptional lot selected to improve a herd or furnish foundation material for new herds.

### Breeders Selling Cattle in This Sale

M. W. Smith.....Paullina, Iowa
Dr. S. A. Donahoe.....Sioux Falls, S. D.
Hazel G. Wilcox.....Moville, Iowa
R. W. Hall.....Larrabee, Iowa
Otto Thiede & Sons.....Burton, Nebr.
R. J. Egger.....Roca, Nebr.
George Fanning .....Gilmore City, Iowa
Floyd Fanning .....Nemaha, Iowa
Dewar Bros. .....Cherokee, Iowa
McCone Bros. .....Botna, Iowa
Clausen Bros. .....Spencer, Iowa
Bochmann Bros. .....Holstein, Iowa
John R. Saunders & Son.....Manilla, Iowa
H. Russell Held.....Hinton, Iowa
C. B. Conover & Son.....Holstein, Iowa
Peter Bell & Son.....LeMars, Iowa
Sumpton Bros. .....Frederick, S. D.
G. E. Held.....Hinton, Iowa
Howard V. Reilly.....Sergeant Bluff, Iowa
H. N. Harrison.....Washta, Iowa
Edwin W. Carlson & Sons...Kiron, Iowa
Robert & Bert Gable.....Hartley, Iowa
Ernest H. Retzlaff & Sons..Walton, Nebr.
Walter H. Stein.....Estelline, S. D.
Metz Bros. .....Holstein, Iowa
Carl L. Retzlaff & Sons....Walton, Nebr.
Abel Klinghagen .....Davis, S. D.
Joseph M. Collins.....Dell Rapids, S. D.
F. E. Jackson.....Hurley, S. D.
Eric Ambrose .....Magnet, Nebr.
Glen Lingenfelter .....Magnet, Nebr.

We urge your attendance whether you plan to buy or not. The cattle will be judged the first day and we know you would like to see the awards made. Write for **FREE** catalog at once and please mention this publication when doing so.

**F. E. JACKSON, Secy. and Sale Mgr., HURLEY, S. D.**
Auctioneer, J. E. Halsey Maurice Boney, Fieldman
**JUDGING CONTEST: Open to 4-H Boys and Girls and F.F.A. members. Judging starts at 9:30 A. M. on March 7th. $200 in prizes.**

# INTERSTATE ABERDEEN ANGUS BREEDERS ASSOCIATION SALE

Stock Yards Pavilion

**SIOUX CITY, IOWA**
**MARCH 14, 1949**

## 44 Good Bulls
## 25 Choice Females

To our many friends and customers we extend our greetings and invitation to our spring sale. Our motto has been, "Always A Little Better," and we believe that this offering will prove that. We will have enough for everyone to choose from—and of the type that should appeal to everyone. The cattle being offered in this sale represents the result of the constructive breeding programs from some of the best known herds in the country. Herd bulls for breeders, farmers and ranchers. Females of herd improvement caliber. Breeding unexcelled.

### CONSIGNORS

Axel R. Anderson.....Cherokee, Iowa
Henry Bauer .....Kingsley, Iowa
George & Duane Clark....Worthing, S. D.
Milo B. Clark & Sons.....Botna, Iowa
Kent Craford & Sons.....Onawa, Iowa
William Drahota .....Monroe, Nebr.
Eikmeier Brothers .....Pipestone, Minn.
Dr. Emil G. Ericksen....Sioux Falls, S. D.
Korth Farms .....Worthing, S. D.
Nick H. Fox .....Watertown, S. D.
R. W. Frank.....Luverne, Iowa
Harold C. Fritzel.....De Smet, S. D.
Dwight M. Garner.....Ida Grove, Iowa
Gauger Brothers .....Clear Lake, S. D.
Walter R. Griesse.....Rock Rapids, Iowa
Dr. H. H. Harris.....Battle Creek, Iowa
Vearl Hess .....Spencer, Iowa
Janleigh's Angus Farm...Tekaman, Nebr.
Enoch & Bob Johnson.....Galva, Iowa
Howard W. Johnson.....Ida Grove, Iowa
John S. Kimball & Son.....Kirkman, Iowa
W. A. Kirschbaum.....Defiance, Iowa
Layton Angus Farm.....Walnut, Iowa
H. Bruce Loewenstein.....Luverne, Iowa
J. A. Mortvedt.....Dell Rapids, S. D.
A. A. Mugge.....Spencer, Iowa
O & R Farms.....Scranton, Iowa
J. H. Paulsen & Sons.....Pender, Nebr.
P. K. Pratt.....Walnut, Iowa
Carl Steuck .....Primghar, Iowa
Ben G. Studer.....Wesley, Iowa
Raymond Sunr .....Aurora, S. D.
Percy H. Upton.....Madison, Nebr.
Dale D. Winn.....Spencer, Iowa

Plan to attend the banquet, Sunday evening, March 13th, 6:30 P. M., at the Mayfair Hotel. The new full-color sound movie, "On America's Aberdeen Angus Trails," will be shown. The show will start at 9:00 A. M., Monday, with Prof. A. L. Harvey of the University of Minnesota judging. Write at once for the free illustrated catalog and kindly mention Wallaces' Farmer and Iowa Homestead when writing. Address

**P. K. PRATT, Secy. and Mgr., WALNUT, IOWA**
Auctioneers, Johnson & Sims M. T. White, Fieldman

# IOWA ABERDEEN-ANGUS

**Have established a record without parallel on Record of Performance at the International from 1900 to 1948. Iowa cattle have won 21 female champions . . . 16 bull champions . . . 9 individual steer champions and 14 carload champions.**

## "SUPERIOR BEEF BREED"

Annual State

# IOWA SHOW and SALE

**SHOW — Starts 10:00 A. M., March 8th**
**SALE — Starts 10:00 A. M., March 9th**

**JUDGES: Robert Green, Oaktown, Indiana, and B. A. Rucker, Jr., Charlottesville, Va.**

In comfortable heated pavilion at Iowa State Fair Grounds

## Des Moines, Iowa, Mar. 8th & 9th

**160 HEAD**
**BEST AVAILABLE IN IOWA**
**70 BULLS — 90 FEMALES**

## 70 TOP BULLS

**Good, big, rugged bulls, most all ready for service**

**Those looking for herd improvement can find bulls that will fill the demand. One or a carload. Bulls that have won championships, the sort for herd-bulls. Your opportunity for a top quality bull.**

## A GREAT FUTURITY SHOW

**$3,000 offered in cash prizes, which attracted 50 of the best cattle. 18 aggressive breeders and 5 District Associations donate one-half the selling price of several choice heifers to make possible the fine premium awards, which is foresightedness on these leading men.**

The 90 females are a grand lot, the sort for foundation purposes. Good, well-bred cattle sired by leading herd sires, many are mated to the top herd bulls in service in the excellent herds represented. Several females of show-yard merit sell, including champions at some of the best shows. Choice, attractive open heifers, ready to mate to your herd sires. The cattle are consigned by the leading herds in the state. 5 heifers sell for the National Building Fund. You can secure good, richly-bred cattle, both bulls and females, from reliable breeders at your own price. The breed of cattle that will convert your feeds into profitable beef cattle. This is an event you cannot afford to miss . . . one of the greatest Angus events of the year of 1949. **COME.** Ask for the **FREE**, beautifully illustrated catalog, sent only on request. Kindly mention this publication when writing. Address

**GAROLD L. PARKS, Secy., R. 3, AMES, IOWA**
Auctioneers, Johnston & Sims J. E. Halsey, Fieldman

**BANQUET and Annual Meeting at Hotel Savery, Tuesday, March 8th, 7:00 P. M. All are cordially invited.**

# WILTON FARMS ANGUS

Sale at Fair Grounds

## DAVENPORT, IOWA, MONDAY, MARCH 21st.

BLACKCAP BESSIE 7TH OF WILTON. 4 Bessies sell. A sample of he offering. More of like merit. BANDOLIER 144TH OF WILTON. Iowa grand champion and member of first Produce of Dam at International.

## + 80 HEAD +

**15 HERD BULL PROSPECTS**
**65 FOUNDATION FEMALES**

A grand lot of cattle, selected with care from a fine herd . . . the greatest offering ever presented from **Wilton Farms**. The **65** females are of foundation character . . . a few with big lusty calves at side by wonderful herd sires, a beautiful lot of richly bred cows and heifers well forward in calf to our excellent herd sires. **15** most attractive open heifers, suitable to mate to your herd bulls. Cattle sired by or mated to **BANDOLIER 144th OF WILTON, BANDOLIER 145th OF WILTON, BANDOLIER 123rd OF WILTON, BANDOLIER 100th OF WILTON, BANDOLIER 44th OF WILTON, BARRY BURGESS OF WILTON**, and **EVADERS QUALITY BARDOLIER**. We offer 4 **WILTON BLACKCAP BESSIES** and other fashionable families. Breeding and quality unsurpassed. The catalog is well illustrated. Sent only on request. Ask now for **FREE** copy. Kindly mention this publication.

**WILTON FARMS, P. O. Box 838, DAVENPORT, IOWA**
**Otto G. Nobis Dick Nobis G. J. Norton**

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EASTERN IOWA ANGUS BREEDERS

# BEEFLAND SALE

To be held at Mississippi Valley Fair Ground

## DAVENPORT, IOWA, MONDAY, MARCH 21st

## NIGHT SALE

**55 HEAD—11 RUGGED BULLS, 44 RICHLY-BRED FEMALES**

This fine offering has been selected from the leading herds of Scott, Muscatine, Cedar, Clinton, and Jackson Counties, where top quality Angus are produced. 11 bulls, 9 ready for service, one 3-year-old tried sire, grandson of **Black Prince of Sunbeam**. One son of **Eileenmere 585th**, one by **General 2d of Bordulac**, and one by **Barry Burgess of Wilton**. The 44 females include 25 bred heifers, mated to top quality herd sires. 14 beautiful open heifers. The most popular families are represented. Plan to **COME**. Ask now for **FREE** catalog. Kindly mention this publication. Address

**OLIVER A. HANSEN, Mgr., DURANT, IOWA**

Auctioneer, Ray Sims. J. E. Halsey, Fieldman

Dick Nobis, President. Ferd Schmidt, Chairman

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# Our 4th Annual Production Sale

*THE JILT JUBILEE OF 1949*

**65 Angus Selling Tuesday, March 22nd at COLUMBUS JUNCTION, IOWA**

You Will Want FREE Illustrated Catalog
Write Today to
Forrest Larmer
Muscatine, Iowa

Dollar-for-Dollar we offer you more

**5 BULLS — 60 FEMALES**
**TOP FAMILIES**

8 of the TOP JILTS, 7 MISS BURGESS, BLACKCAP BESSIE, ZARA, GEORGINA, WITCH OF ENDOR, JUANA, BARBARA, ELBA and others.

**43 BANDOLIERS — 7 SUNBEAMS**

33 bred to Eileenmere 1023, Bandolier of Anoka 46th, and other great bulls

Top quality and blood lines at moderate prices

**LARMER - NAU - BARTENHAGEN - SMYLIE**

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**BUY SAVINGS BONDS—THEY WILL HELP YOU LATER—BUY ALL YOU CAN—NOW!**

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# NORTHEAST MISSOURI ANGUS BREEDERS

**Tenth Annual Sale, in pavilion, located 40 miles south of Ottumwa, at**

## MEMPHIS, MISSOURI

## Thursday, March 3rd

**60 HEAD — 8 TOP BULLS, 52 WELL-BRED FEMALES**

This is a splendid lot of cattle drawn from the best herds in this territory. The 8 bulls include some high-class herd bull prospects. The females are a grand lot . . . 13 choice bred cows and heifers, mated to outstanding sires . . . 39 most attractive richly-bred open heifers, ideal to mate to your herd sire. The consignors are:

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| Albert Couch | Baring, Mo. | J. A. Daggs | Arbela, Mo. |
| Dr. & Mrs. W. R. Dierks | Memphis, Mo. | Maurice Fowler | Livonia, Mo. |
| Floyd C. Hocker | Downing, Mo. | J. E. Lovekamp | Queen City, Mo. |
| Don C. Pollock | Unionville, Mo. | Earl Rogers | Kirksville, Mo. |
| Lloyd Ray | Livonia, Mo. | Harold Rogers | Kirksville, Mo. |
| Edward L. Tietsort | Worthington, Mo. | P. O. Van Meter & Son | Queen City, Mo. |
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Auctioneer, Roy Johnston J. E. Halsey, Fieldman

**SALE CIRCUIT: Feb. 25th, Heart of America, Kansas City; Feb. 26th, L. M. Thornton, Garden City, Mo.; Feb. 28th, Silver Top Farm, Belton, Mo.; March 1st, Penney & James, Hamilton, Mo.; March 2nd, North Central Breeders, Chillicothe, Mo.**

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# 7th Annual Draft Sale! ANGUS CATTLE

EILEENMERE 487th, our $30,000 sire

**At the Home-Place, just east of**
**HAMILTON, MISSOURI**
**TUESDAY, MARCH 1st**
Starting at 12:30 P. M.

**67 HEAD—56 CHOICE FEMALES, 11 GOOD BULLS**

One of the finest herds of the breed with outstanding individuals rich in pedigree. 49 beautiful heifers mated to **EILEENMERE 487th; EILEENMERE 999th; ENVIOUS OF HAMILTON; ENVIOUS BURGESS II.**, and **HOME-PLACE EILEENMERE 72d.** 7 most attractive open heifers. 11 herd bull prospects, 9 are sons of **EILEENMERE 487th.** Best in breeding type and quality. Plan to attend. Ask for **FREE** beautiful illustrated catalog. Kindly mention this publication. Address

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# Silver Top Angus Dissolution

At Silver Top Farms, just southeast of Kansas City at

**BELTON, MISSOURI, MON., FEB. 28**

Starting at 10:00 A. M.

**150 HEAD—23 Bulls, 3 Herd Sires, 127 Richly-bred Females**

The property of **Johnston Brothers**, Belton, Missouri, and one of the well-bred herds of the breed. All the most popular and approved tribes, including eight imported females. Many cows with big calves and rebred, choice bred cows and heifers and numerous open heifers. Three truly great herd sires . . . they are **TOPS. EILEENMERE 649th**, a wonderful Eileenmere sire by Eileenmere 487th; **BEEFMAKER 34th**, a choice grandson of Black Prince of Sunbeam and **GRENADIER 2d OF DEER CREEK**, an intensely Bandolier-Bardolier bull. Also 20 choice young bulls of serviceable age. Ask for **FREE** illustrated catalog. Kindly mention this publication. Address

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**SHOW—10:00 A. M. SALE—12:30 Noon**
HENRY COUNTY SALE PAVILION

**MT. PLEASANT, IOWA, SATURDAY, MARCH 12th**

**Herefords and Polled Herefords**
**28 BULLS — 22 FEMALES**

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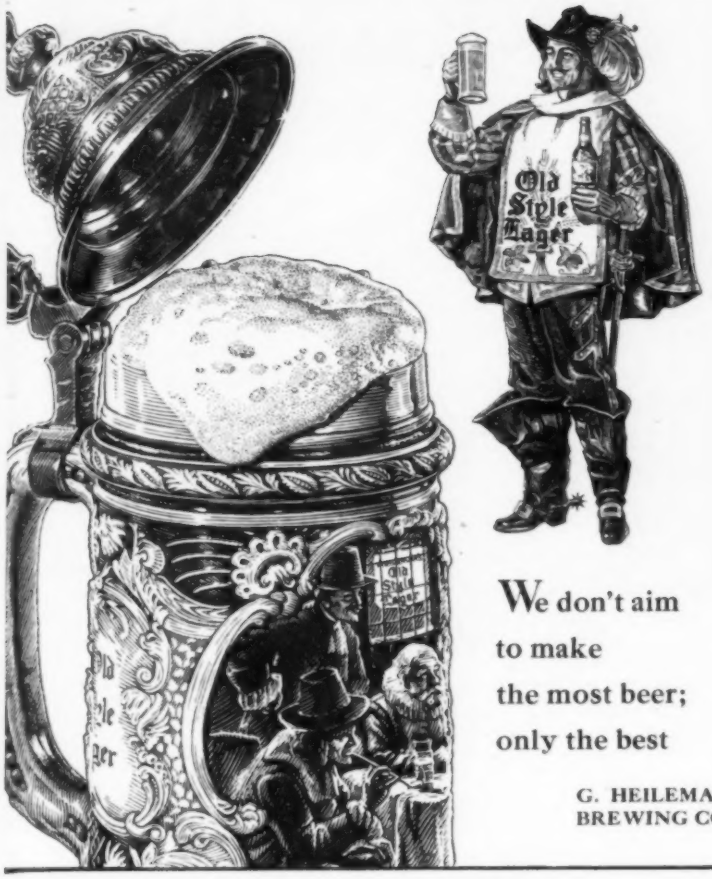


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## FRIDAY, FEB. 25th

Choice purebred sows and gilts, well grown and sired by **THE HARVESTER**, top boar in the Bob Walters sale, and **GOLDEN DAWN**, one of the best from the Miles & Max Mann Herd. They are mostly bred to **PRINCE CHARM**, the top boar out of **Heavy Set** in the Goff sale and other top herd sires. All bred to farrow in late February, March and April. They are in excellent condition, displaying size, quality and merit and evidence of good, strong litters. Make plans to attend. Ask now for **FREE** catalog. Kindly mention this publication.

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Auctioneers, Taylor and Martin

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Our 1947 Grand Champion

SHADELAND FARMS

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## LUVERNE, MINN., MARCH 2, 1949

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At Fair Grounds

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**70 Head of Choice Gilts**

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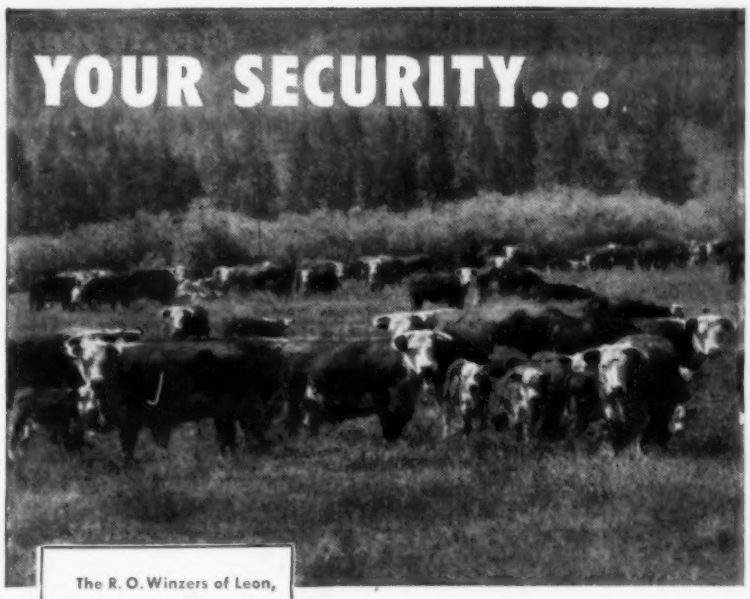


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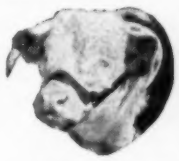
SHOW — 9:00 A. M. SALE — 12:00 Noon

## Denison, Iowa

## Thursday, March 10



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An offering that is a credit to the breeders and a sale where the buyers can find good, dependable, well-bred cattle of the quality that should please. Make plans now to attend. Ask for **FREE** catalog. Kindly mention this publication. Address

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Auctioneer, J. E. Halsey M. T. White, Fieldman

BANQUET: And Association Meeting, 7:00 P. M., March 9th. All are invited.

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In comfortable sale pavilion, located 20 miles west of Des Moines at

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**50 Herefords and Polled Herefords**

The sale will sell both bulls and females and there will be Herefords and Polled Herefords. If interested in selling in this sale, make your entries **NOW**. Ask for the **FREE** catalog. Kindly mention this publication. Address

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Applewood Bandolier 138th

A 4-year-old son of Bandolier of Anoka 3rd. His calves will please and can be seen in feed lot. A real tried and proven sire. Act now. Priced right.
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10 ANGUS BULLS

Choice bulls, 10 to 20 months of age, mostly sired by REVOLUTION B.A.S. 4th, a winner at Iowa State Show and Sale. Come or write.
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MOST PROFITABLE COWS
4% MILK
Big Milkers Hardy Rustlers
Good Grazers Perfect Udders
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Good, strong, carefully selected Guernsey or Holstein heifer calves, purebred, not registered. $45 on express car, older calves $50. 10 to 35 delivered by truck to your farm on approval. Also a few Brown Swiss calves.
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GUERNSEY, HOLSTEIN, JERSEY and SHORTHORN heifers. Full Blood and High Grade. 1 to 3 weeks old, $32.50. These are large type, well-marked, fancy bred calves with production backgrounds. Week old Holstein, Guernsey bulls $25. shorthorn bulls $30. Grade Hereford heifers and bulls, one week, $30. Will express C.O.D. subject to approval.
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GUERNSEYS

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Serviceable age. Choice quality. Popular blood lines. A. R. Dams. Also several springing cows, bred heifers and heifer calves. Negative all tests. Priced to sell.
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Governor of Carnation and Posh breeding, serviceable age. You will like them.
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Heifer calves, about month old. Top quality Holsteins or Guernseys. 4 for $145.00 delivered. Also older calves. All charges prepaid. Will ship C.O.D. Order from this ad. Satisfaction guaranteed.
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Choice heifers, ready to freshen in 30 to 60 days. Sold on approval. Act now.
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## Livestock News

The Hereford sale of Charles Bianchi, Macon, Mo., January 27, under the able direction of Jewett Fulkerson, sale manager, drew a bad day, with severe sleet and ice, which kept many from coming. But the fair-sized crowd which braved the storm were well repaid for their efforts. The top of the sale was WHR Jr. Reality 54th, a five-year-old and the sire of the Denver junior champion, BHR Reality 2d, that sold for $18,000 in Denver. WHR Jr. Reality 54th sold for $4,500 to Lakeland Farm, Bethany, La. BHR Helmsman A. 46th sold for $2,275 to W. N. O'Bannon, New Madrid, Mo. BHR Helmsman A. 79th went to Bones Stock Farm, Parker, S. D., at $2,500. Mr. Bones also paid $1,500 for BHR Helmsman A. 47th and $1,000 for BHR Helmsman A. 51st. The top female was BHR Miss Helms A. 40th, selling at $1,725 to Moseley Farms, Jackson, Wyo. BHR Miss Helms A. 39th went for $1,475 to Emmadine Farms, Breckenridge, Mo. BHR Miss Super Lad 8th and heifer calf, the choice of many, were selected by John Wisdom, Des Moines, Iowa, at $1,450. WHR Melissa 175th sold for $1,000 to John Olvey, Harrison, Ark. BHR Helms Lady 1st went at $1,000 to McCalmet Farms, Unionville, Mo. BHR Miss Helms A. 16th was taken by John Wisdom at $1,400. BHR Miss Helms A. 34th sold to S. M. Heberlin, Pleasantville, Iowa, at $1,035. The 23 bulls averaged $950, with 64 females at $657 each, and the 87 lots at a general average of $735. The cattle went to buyers in 12 states, namely, Iowa, Missouri, Illinois, Indiana, Kansas, South Dakota, Arkansas, Wyoming, Ohio, Michigan, Louisiana and Mississippi. A. W. Thompson and J. E. Halsey were the auctioneers, with Jewett Fulkerson selling a part of the bulls, and

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The Merrill S. Castle Angus dispersion, held at Congerville, Ill., January 31, drew a bad day, with a lot of ice over the roads from every direction. However, buyers were present from Iowa, Illinois and Missouri. The top of the sale was the herd bull, Prince Eric 2d of Lakewood, selling at $1,310 to Becker Bros., Stanford Ill. Prince 5th of Castleloch, his March son, sold for $700 to E. J. & E. H. Hock, Grays Summit, Mo. A late March calf by the same sire, Prince 6th of Castleloch, went at $250 to T. M. Brown, of Nichols, Iowa. The top female was Revolution Jilt, selling at $610 to Rundell Farm, El Paso, Ill. Barbara of Rosemere 198th went at $600 to Wm. Henry & Son, Cambridge, Ill. Blackbird of Glenwood 2d sold for $600 to Red Top Farm, Libertyville, Ill. Blackcap's Girl of Lost Lake went to Red Top Farm at $600. Jilt of Castleloch sold for $560 to W. G. Lillard, Clinton, Ill. Ballindalloch Minor sold for $500 to R. I. Frank, Morton, Ill. Winsome Witch 2d went to Rundell Farm at $585. The eight bulls averaged $521.25, with 27 females at $431 each, and the 35 lots at a general average of $451.40. Auctioneer, Roy Johnston.

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Weather conditions curtailed the usual attendance at the Marshall County Shorthorn Breeders show and sale, held January 31. The pre-sale show was judged by A. J. Blakely, of Grinnell, Iowa. Champion bull was the red four-year-old, Missie's Archer, by Champion Archer, from the Paul H. Aldinger herd, Ackley, Iowa. Lester Tomlinson & Sons, Traer, Iowa, gave $480 for the champion. Morris Douglas, Brooklyn, Iowa, gave $375 for the reserve champion bull, a son of Marelbar Footprint, from the Tomlinson herd. Clem Freeze, Melbourne, Iowa, paid $395 for a son of Goldfinder's Resolution, consigned by Paul Aldinger. Champion female was the April, 1948, heifer calf consigned by Geo. H. Lewis, Marshalltown, Iowa. L. L. Doak & Son, Grundy Center, Iowa, paid $220 for this good young heifer. Reserve champion female was the roan coming three-year-old by Achtol's Signet, consigned by Warren Dankel, Glidden, Iowa. She sold to Earl Sparrow, Zearing, Iowa, for $265. The 40 bulls averaged $283 and the 22 females averaged $231, making a general average of $265 on the 62 lots. All of the cattle sold to Iowa buyers. The show and sale was again under the able management of Geo. H. Lewis, Marshalltown, Iowa. C. G. Mason was the auctioneer.

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RED POLLED

RED POLL CATTLE

Choice bulls, serviceable and younger by GOLD COIN ADVANCER 12th, first at Minnesota. Dam with DHIA records. Reasonable. Farm 10 miles east on U. S. No. 16. Write or visit herd.
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MILKING SHORTHORNS

MILKING SHORTHORN SALE
Comfortable Pavilion
ELDORA, IOWA, FEB. 25th
THE SHAVER Herd with a production average of 369.8 lbs. of butterfat per cow, and GEORGE PIESEN have combined two herds to offer an unusual opportunity for the most particular buyers. Choice females, in milk, bred and open heifers. Good bulls. Come. Ask for FREE catalog. Kindly mention this publication. Address
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Choice quality, rich breeding. Reasonable.
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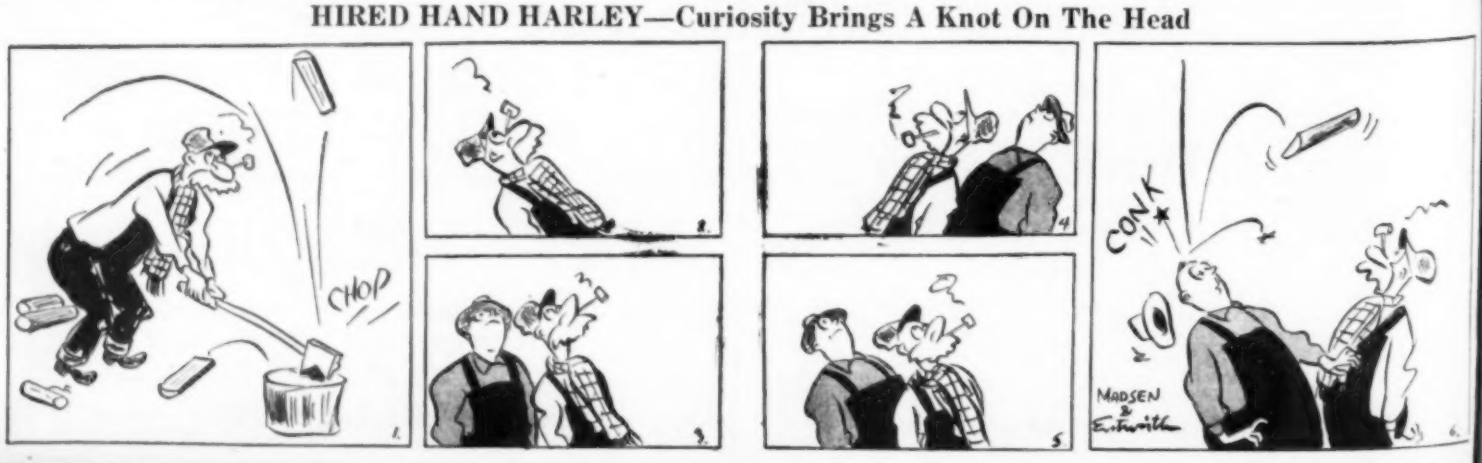
## HIRED HAND HARLEY—Curiosity Brings A Knot On The Head



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**$24.00 BU.**

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Yearling sows and gilts, bred for February, March, April and May farrow, to extra choice well bred boars. These sows are good individuals and priced to sell. Phone 278.
JOHN H. FITCH LAKE CITY, IOWA

## CHESTER WHITES

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50 choice Chester White Gilts bred for March and April farrow. Daughters of **ADVANCER** and **SUNNY ACE** bred to one of the top young boars of the breed. The prolific easy feeding, fast maturing kind. Quality that will please and priced to sell. Come and see them or write.

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### CHESTER WHITE GILTS

**40 OUTSTANDING BRED GILTS**

Well grown and the type in demand. Sired by Model Chief, Performance Chief and Combination. Bred to **LUCKEY'S MODEL LAD** 573979, **WHITE KING** 569877, and **PRODUCERS PROFESSOR** 568747. For March and April farrow. Write or come and make your selection from this long established herd. Top quality and breeding, REASONABLE. Pedigreed. Immuned. Satisfied customers.

**F. H. SCHMADEKE & SONS**
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### INBRED and CROSSLINE Duroc Jersey Boars and Gilts

This registered herd contains Line 3 from the Oklahoma State Experiment Station and Lines 10 and 8 from the Nebraska State Experiment Station. The fall litters averaged 10½ pigs per litter. These lines are selected for SUPERIOR performance. Useful in purebred herds and for crossbreeding. FARMERS' PRICES. Act now.

**IOWA STATE COLLEGE**
**Agricultural Foundation Farm**
T. G. Hotle, Operator, Columbus Junction, Iowa

### DUROC SALE

At farm, 1 mile east and 5 miles south of
**BUFFALO CENTER, IOWA, FEB. 25th**

80 excellent gilts bred to two prize winning boars, **MODERN PRIDE**, a Junior grand champion of All-Iowa, and **LUCKY BOY**, first at North Iowa. Come. Ask for **FREE** catalog. Please mention this publication.

**Henry E. Krull Buffalo Center, Iowa**

### DRUMMY'S DUROCS

30 choice dark red, lengthy deep bodied, well rippled gilts, weighing 360 lbs. to 400 lbs. Bred to a truly great boar from that sensational litter sired by **KAYWARD LEADER**, 1948 Iowa Reserve Grand Champion. Will farrow March and April. **FALL** gilts, weight 250 lbs., open or bred for June farrow. Cholera immune. Farm 3 miles south, 1 mile east. **PRICED TO SELL.**

**VINCENT DRUMMY RYAN, IOWA**

## DUROC JERSEYS

### DUROC SALE

At farm, 3 miles north of
**SIOUX CENTER, IOWA, FEBRUARY 22**

Selling a large offering of big, broody gilts sired by top boars of the breed. Mostly bred to **MR. BLUE PRINT**, sire of the right kind. The large number affords a grand selection for the farmer. PLAN TO ATTEND.

**BERT BROEK & SONS**
**Sioux Center, Iowa**

### DUROC BRED GILTS

Choice gilts bred to **PROUD IMPROVER** 326801, **PROUD SECO MODEL** 337761 and **JUST RIGHT AGAIN** 326931. Good type and quality. Excellent breeding. Priced right.
SAM ROBERTS & SONS JEFFERSON, IOWA

**CHOICE DUROC GILTS**

Bred to sons of **Kayward Leader**, 1948 Iowa Reserve Grand Champion, and **Real Triumph**, 1947 Indiana Grand Champion. You will find these gilts are top buys—good quality, well grown. Immune. "The Kind That Satisfy." Write or visit.
EARL DRUMMY, ½ mi. S., 3 mi. E., Ryan, Iowa

## HAMPSHIRES

### HAMPSHIRE SALE

Heated Pavilion, Stock Yards
**SIOUX CITY, IA., MAR. 3**

**60** Choice sows and gilts selected from two fine herds sired by **HARMONY, CEDAR GENERAL, CARRY OVER** and **NEW AMERICAN**. Best of breeding. Mated to **CEDAR GENERAL, HARMONY, GENERAL A., CARRY OVER, MR. BOUND** and **TRANSFIXER. COME.** Ask for **FREE** catalog. Kindly mention this publication. Address either.

**Emmet Conway, Dakota City, Nebr.**
**W. E. Flippin & Son, Burbank, S. D.**

**40 HAMPSHIRE BRED GILTS**

At private treaty. High class, growthy gilts bred to **TRUE TRIUMPH**, a great son of the $8,500 True Mold, 1947 Iowa Grand Champion. All are Bangs tested. Bred for March and April farrow. See these or write us.
GEORGE RENTSCHLER LAKEFIELD, MINN.

### HAMPSHIRE SOWS

Choice yearling sows bred for March and April farrow to the rugged **NEW BOUNCE**, first prize fall boar at State sale. Real prospects. Reasonable.
CLARENCE J. SUEPPEL SOLON, IOWA

## HEREFORD HOGS

### HEREFORD HOGS

NEW! DIFFERENT! DISTINCTIVE MARKINGS!
SHIPPED C.O.D. YOUR APPROVAL
FREE CIRCULAR
**VALEHURST FARMS, PEORIA, ILL.**

## MINNESOTA NO. 1 HOGS

### MINNESOTA NO. 1 BOAR

Choice yearling boar for sale.
Good individual; will make wonderful sire.
ACT NOW.
CYRIL A. BENDA TAMA, IOWA

## POLAND CHINAS

### BRED POLAND CHINA GILTS

30 choice spring gilts from large litters and a few tried sows. The gilts are well-grown and will weigh from 350 to 450 lbs. Bred for March and April farrow to **TRANSFUSION** by Blood Bank, and to **GRAVITY** by Pioneer Prince 2nd. Also offering some very good fall boars sired by Gravity. The fast maturing kind bred for production with plenty of width and good ham. Visit the farm or write. Priced reasonable.

**ORVAN B. OLERICH**
**Rolfe, Iowa**

### POLAND CHINA GILTS

**$700** buys 15 choice registered open September gilts sired by **GRAND SLAM**. Nice herd for someone. Also gilts bred for March farrow, suitable for Club work. Reasonable.
VINCENT MANDERSCHEID, Maquoketa, Iowa

## SPOTTED POLAND CHINAS

### SPOTTED POLAND GILTS

30 choice gilts for sale, bred for March and April farrow, sired by **NONE SUCH** and **NEW WAY** and mated to **PACKERS MODEL** and **MARKET TOP** by Checkit, two of the top boars in the Carl Hebner fall sale. Best in blood lines. Excellent quality. Farm 4 miles north and 2 miles west.
**HANSON BROS. GOWRIE, IOWA**

**BUY U. S. SAVINGS BONDS NOW**

## TAKE TIME OUT to CHECK these BOLSON'S FEEDS in '49

**Bolson's 20% Pig and Sow Meal with Buttermilk**
**Bolson's Hi-Test Mineral Protein Conditioner • Bolson's 36% Concentrate**
**Bolson's 19% Contented Peep Chick Starter**
**Bolson's 17% Starting and Growing Mash • Bolson's 26% Grain Balancer**
**Bolson's 20% Breeder Egg Mash**

*Sold by Reliable Feed Dealers Only*

**The L.C. BOLSON Co.**
A NAME YOU CAN TRUST IN FEEDS!
**DECORAH, IOWA.**

## SPOTTED POLAND CHINAS

### SPOTTED POLAND SALE

At Farm
**WEST LIBERTY, IOWA**
**MARCH 4, 1949**
**35 SPRING GILTS**
**10 TRIED SOWS**

Choice well grown gilts, bred and fed in the way to make real brood sows. Offering mostly sired by **BRIGHT LAD**, and some attractive **LIBERATOR** gilts bred to **WIDE BACK CHIEF**, a good son of Tip Top Model. Others mated to **BANNER**, one of the top boars. Good quality excellent breeding. Come. Ask for **FREE** catalog. Kindly mention this publication.

**ARTHUR BAILEY & SONS**
**WEST LIBERTY, IOWA**

### SPOTTED POLAND SALE

**Sale Pavilion**
**EGERTON, MINN., FEBRUARY 28th**

Choice purebred gilts mated to top herd sires. Come. Ask for **FREE** catalog. Kindly mention this publication.

**A. LOPAU & SONS**
**Pipestone, Minn.**

**REGISTERED**
### SPOTTED POLAND CHINAS

It is time again to think about buying sows and gilts for spring farrow. This is the best lot I have ever offered and they are bred to some of the best boars in the breed, including **NATIONAL TOPIC**, a boar of my own raising. I sell all of my hogs privately as breeding stock. That means many men see this hog and no one has ever been able to find fault with him. He is a "national topic" among hog breeders. Another boar recently added to my herd is a grand son of **SOD BUSTER**, a grand champion of Nebraska. Good sized fall boars also for sale.

**PETER WITT KEYSTONE, IOWA**

### REG. SPOTTED POLAND GILTS

Big, thick gilts bred to **THICK SET**, top son of **THE ANSWER** and **SUPREME VIGOR-O**, a top son of **SUPREME ROCKER**. These are wide, heavy-hammed and bodied.
KRAMER BROS. ADRIAN, MINNESOTA

### SPOTTED POLANDS

Registered, 20 fall boars and 40 gilts. Tops sired by **Spotted Bay** out of dams by **Feeders Model** and **Bingo**. They have size, color and quality. Satisfaction guaranteed. Will ship anywhere. Farm 4 mi. N.
W. E. BRUNTNALL & SON, PRESCOTT, IOWA

### SPOTTED POLANDS

30 choice bred gilts, well grown, excellent type. Best in breeding. Will farrow from Feb. 25th to April 1st. Mated to a top son of **Vitality Plus**.
CECIL D. MURPHY, R. 3, ATLANTIC, IOWA

### SPOTTED POLAND GILTS

Choice, registered, large type gilts sired by **Super Sides** by Midway and **Liberty Boy** by Square Supreme bred for March and April to sons of **Rocker, Skippy** and **Checkit**. REASONABLE.
MORRIS MILLER CLARION, IOWA

## TAMWORTHS

### TAMWORTH BOARS

Choice boars we know will please you. Good type and good breeding. Write us or come and see them.
PROPST BROS., R. R. 3, IOWA CITY, IOWA

**PUREBRED TAMWORTHS**

Better start thinking ahead and get your order in for choice fall boars or gilts that are really **TOPS**. This herd produced, sold and registered more **Tamworths** than any other in the **U. S.** the past year. Get yours from the best.
**J. H. JONES AINSWORTH, IOWA**

## YORKSHIRES

### YORKSHIRE HOGS

Registered Breeding Stock of all ages for sale.
PORTERS YORKSHIRE FARM
ELDRIDGE, IOWA
8 miles north of Davenport

### HOG SALE — ALL BREEDS

At Sale Barn
**CHARITON, IOWA, FEB. 28th**
(Night Sale)

**55** Choice **Durocs, Polands, Spotted Polands, Hampshires** and **Herefords**, bred gilts consigned by Lucas County leading breeders. Best of breeding and quality. Ask for **FREE** catalog. Come.

**RAYMOND AIRY, Secy., DERBY, IOWA**

## YORKSHIRES

### Purebred Yorkshires

Registered Yorkshire Gilts bred to champion imported English boar. March and April farrowing. Priced as low as $125.
**JESS L. THURMOND FARMS, R.F.D. 2, Florence Station, Omaha, Nebraska.**

### YORKSHIRE GILT SALE

**Grand Champion Carcass** of the World, Yalehurst-Shure Gain, won Grand champion carcass over all breeds at National Barrow Show. 60 gilts sell **FEBRUARY 26th**, similar breeding. **FREE** catalog.
YALEHURST YORKSHIRE FARM Peoria, Ill.

## SHEEP

### SUFFOLKS — LINCOLNS — COTSWOLDS

Rams, all ages. 150 bred ewes. Bred to Champion rams. Shipped on approval.
CRANDELL'S PRIZE FARMS, ITHACA, MICH.

### HAMPSHIRE EWES

Fine purebred ewes of good quality. Bred to lamb February, March and April. Write for particulars. Phone 901.
M. O. TJERNAGEL STORY CITY, IOWA

## DOGS

**Notice**—Unsatisfactory dogs must be returned within time specified by advertiser. Buyer always pays express charges (both ways if dog is returned) unless advertiser states in advertisement that he will do so.

### GENUINE ENGLISH SHEPHERD PUPS

Guaranteed heelers. Year's trial, training instructions. Males, females or spayed females.
HIGHVIEW KENNELS, CEDAR FALLS, IOWA

**BEST YET**
### ENGLISH SHEPHERD PUPS

Guaranteed to bring home the cows. Year's trial. Choice of sex. Spayed females a specialty. Priced right.
CLOVERDALE FARM ACKLEY, IOWA

**Purebred Border Collies**
**English Shepherds**
America's most useful dogs. Puppies all ages. Both sexes. Choice colors. Faithful workers. Satisfaction guaranteed.
We breed and sell our own stock.
**FAIRMOUNT FARMS - CEDAR FALLS, IOWA**

### SHEPHERDS, COLLIES

ENGLISH SHEPHERD, OR COLLIE PUPS for watch and stock. Also registered Scotch collies. Reasonable.
ZIMMERMAN FARMS FLANAGAN, ILL.

### WANTED TO BUY

Good English Shepherd or Collie Pups
**Write Box 1, Wallaces' Farmer and Iowa Homestead**

### Shomont Collies

Workers—Companions—Guards. Write for free lists.
SHOMONT FARMS AND KENNELS
MONTICELLO IOWA

**GENUINE ENGLISH SHEPHERD AND COLLIE PUPS**

Guaranteed herd-drivers (no fooling). Year's trial, training instructions. (50,000 satisfied customers.) Males — females — spayed females specialty. $15.00. (Distemper vaccinated.)
**EMIL RUNFT REINBECK, IOWA**

**AIREDALES REGISTERED**—Males $25, Females $15. **WIRES REGISTERED**—Males $25, Females $20. **SCOTTIES REGISTERED**—Males $25. **COCKERS REGISTERED**—Males $15, Females $12.50. **FERRETS**—Male or Female $10.
VAN GORP KENNELS MINK RANCH
PELLA, IOWA

## PAW TUCKER—Anyway, Paw's Dream Ends Well

ANNUAL NORTH CENTRAL

# Missouri Angus Breeders

## SHOW and SALE

10:00A.M. 1:00P.M.

In Comfortable Pavilion

## CHILLICOTHE, MISSOURI

## WEDNESDAY, MARCH 2nd

## 62 HEAD—20 Good Bulls, 42 Choice Females

An excellent offering selected with care from the best herds in this section. "THE HOME OF GREAT BULLS." Choice cows and calves and rebred . . . bred cows and heifers and open heifers. All rich in pedigree. A choice lot of real herd bull prospects. Plenty of good, rugged bulls, ready for service, by top sires, displaying merit and quality. A bull for any need. Other good bulls of equal merit and ready for service.

This is an ideal place to secure well-bred cattle, the large number of good breeders affords a wide selection of top cattle. All **T.B.** and **Bangs** tested. Plan to attend. Ask for FREE catalog. Please mention this publication. Address

**A GOOD PLACE TO BUY . . . WHERE CATTLE NEVER SELL HIGH**

**Lewis Anderson, Secretary, Chillicothe, Missouri**

**NORTH CENTRAL MISSOURI ANGUS BREEDERS**

Auctioneer, Roy Johnston J. E. Halsey, Fieldman

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# Iowa Royal Shorthorn Show and Sale

Comfortable Pavilion, State Fair Grounds

**SHOW — 1:00 P. M. SALE — 12:00 Noon**

**Monday, March 14 Tuesday, March 15**

JUDGES: Norman T. Findahl, Waterville, Minnesota
Gilbert Elkin, Jr., Mayville, North Dakota

## Des Moines, Iowa, March 14th and 15th

**62 HEAD**

**37 BIG, RUGGED BULLS READY FOR SERVICE**
**25 CHOICE WELL-BRED DESIRABLE FEMALES**

For this annual event cattle have been secured from 25 of the leading herds in the state, individuals that will please and breeding that will assure their future breeding usefulness. The large number of bulls afford a wide selection . . . real herd bull prospects . . . a bull to fill any demand. The females are attractive, several well forward in calf to high-class herd sires, a number of most attractive open heifers. Breeding unsurpassed . . . the quality and merit will please. More details next issue. **COME.** Ask for **FREE** catalog. Kindly mention this publication. Address

**CHAS. GARDEN, Sale Mgr., Route 6, DES MOINES, IOWA**

Auctioneer, J. E. Halsey

**BANQUET:** Hotel Kirkwood, 6:30 P. M., March 14th

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# Illinois Shorthorn Show and Sale

**SHOW—9:30 A. M. SALE—12:30 P. M.**

In Comfortable Cattle Barn

**NORMAL, ILLINOIS, FRIDAY, MARCH 4th**

**21 Bulls — 35 Females**

One of the strongest lots of cattle ever listed for an Illinois State Sale, selected from leading herds. Plenty of herd bull material, most all ready for service. Choice females, many mated to top herd sires, several attractive open heifers, just ready to mate to your herd sires. Good individuals, modern type, rich in breeding. Ask for **FREE** catalog. Kindly mention this publication. Address

**HAL LONGLEY, Sale Mgr., 16 S. Locust St., AURORA, ILLINOIS**

Auctioneer, J. E. Halsey

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# Johnson's Quality Chester Whites

In Iverson's Heated Garage

## ODEBOLT, IOWA, FEBRUARY 23rd

**55** Choice well-grown gilts displaying type and of popular blood lines. They are sired by **KING BALANCER**, first at 1948 Spencer fair; **TRU MODEL**, a grandson of the Champ; and **VICTORY LAD**. Mostly bred for March farrow; a few for April farrow. Many bred to **MODERN RULER** by Modern Topper, sire of 1948 Junior and Reserve Grand Champion at Nebraska and sold for $950. Others bred to **THE DEAN'S BOY**, a grandson of Modern Ace. His litter mate was 1948 Nebraska Junior champion. Ask for **FREE** catalog. Kindly mention this publication.

**SETH W. JOHNSON & SON DUANE, KIRON, IOWA**

**—SAVE MONEY THE EASY WAY—BUY SAVINGS BONDS NOW—**

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# NORTH IOWA POLLED SHORTHORNS

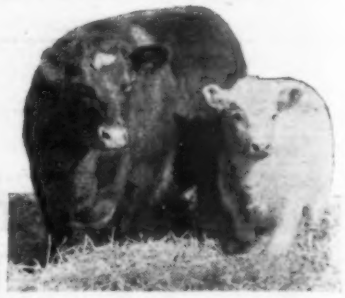
**with strong consignments from**

## HAWKEYE DOWNS AREA

**SHOW — 9:30 A. M.**

**SALE — 1:00 P. M.**

At Clay County Fairgrounds



## MONDAY, MARCH 14th

## SPENCER, IOWA

**37 Excellent Bulls — 29 Desirable Females**

**Held under the auspices of the Iowa Polled Shorthorn Club, Inc.**

37 top bulls, almost all of serviceable age. Bulls to fill the needs of breeders, ranchers, and farmers. They will add weight for age on your calf crop. The 29 females include some good cows with calves at foot, 10 bred heifers and some very choice open heifers.

Sires represented in this choice offering: Superb Monarch x, Regal King x, Red Oak Sensation x, King Sultan x, Coronet Inspiration, Alanna Archer x, Cloverdale Claytoun x, Cloverdale Nugget x, Shadybrook Lord Rother x, Misty Vale Commander x, Masterpiece x, King of the Vanities 6th x, Wavecross Footprints x, Coronet Memory x, King's Jealous Beau x, Red Oak Villager x, Commando, Imp, Uppermill Caledonia, and Hillbrook Nugget 2nd. The consignors are:

| | | | |
|---|---|---|---|
| MARTIN BLASS | Sac City, Iowa | ESTEL MOORE | What Cheer, Iowa |
| MINOR BLUM | Terril, Iowa | MRS. GRACE B. McCOY | Muscatine, Iowa |
| NICK BUYERT | Sioux Center, Iowa | ALBIN J. NELSON | Eagle Grove, Iowa |
| W. F. BAUMUNK & SONS | Osgood, Iowa | OSCAR L. OLSON | Albert City, Iowa |
| FRANK DEMPSTER | Arlington, Iowa | F. O. OLESON | Laurens, Iowa |
| R. L. FLAMME | Gladbrook, Iowa | CLARENCE RYON | Spencer, Iowa |
| WM. FOGARTY | Redman, Iowa | B. O. RUE & SON | Lakefield, Minn. |
| VERNES FARRELL | Emmetsburg, Iowa | SEELY BROS. | Algona, Iowa |
| JOHN KAHN | Pipestone, Minn. | JILJI J. WELLIK & SONS | Britt, Iowa |
| RUDOLP KAEHLER | St. Charles, Minn. | H. H. WILSON | Keswick, Iowa |
| E. P. LAUGHLIN | Imogene, Iowa | GLENN YOAKAM & SON | Keswick, Iowa |
| A. LOPAU & SONS | Pipestone, Minn. | STUDER & GOLTZ | Wesley, Iowa |
| ALBERT LARSON | Ayrshire, Iowa | LLOYD ENDRESON | Alta, Iowa |

Special mention among this grand offering include: The reserve champion bull of the 1948 Minn. State Fair, a February, 1948, roan son of King of the Vanities 6th x; a red November, 1947, son of Cloverdale Claytoun that was a winner at South Dakota, and stood well up at the strong Iowa show. Also selling a half brother and a full brother to our last year show champion, Browndale Monarch, who recently set the top price for a Polled Shorthorn bull at auction at $6,300. This is a real opportunity to select a good herd bull that will fill your needs. Make plans now to attend this SHOW and SALE. Kindly mention this paper when writing for **FREE** catalog.

## EARL S. GIRTON, Sale Manager

**Box 282, Marshalltown, Iowa**

Auctioneer, J. E. Halsey Maurice Boney, Fieldman

*Advertisement*

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## From where I sit ... *by* Joe Marsh

# Want To Join Our Club?

**Newcomers in town are puzzled when they hear talk of "The Barbecue Club." Want to know who can join, and what the purpose is.**

Well, the answer is: *anyone* can join who's neighborly inclined. The purpose is simply to enjoy good food, good beer and ale, good conversation—all towards getting to know one another better.

Every other Saturday during good weather, at one farm or another, the pit is dug, and the fire started. By sundown, neighbors from miles around have come together—the women contributing cakes, pies, and coffee, the men contributing the meat for barbecuing, and the beer or ale.

**From where I sit, it's this simple wholesome side of country life in America—its spirit of good-fellowship—that makes for tolerance and better understanding between neighbors.**

As I say, Neighbor, any one can join up! So come along—soon as we announce the next meeting.

*Joe Marsh*

*Copyright, 1948, United States Brewers Foundation*

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# *If You Need a Good Boar....*

Farmers who need a good boar or gilt or first class individuals of either sex in draft horses, beef or dairy breeds will find the leading breeders listed in these pages and offering surplus stock. Make our columns your guide when buying.

If you do not find in Wallaces' Farmer and Iowa Homestead what you want to buy, advise us and we will gladly give you names of reliable firms that can take care of your needs.

Address **Live Stock Advertising Department**

**Wallaces' Farmer and Iowa Homestead, Des Moines, Iowa**

## Coming Livestock Sales

**ABERDEEN ANGUS**

Feb. 22—Arnold & Jay (Dispersion), Ames, Iowa.
Feb. 28—Johnston Bros. Silver Top Farms, Dispersion, Belton, Mo.; J. B. McCorkle, Mgr., A.I.U. Bldg., Columbus, Ohio.
Mar. 1—Penney & James, Hamilton, Mo.
Mar. 2—North-Central Missouri Breeders, Chillicothe, Mo.; Lewis Anderson, Secy.
Mar. 3—Northeast Missouri Breeders, Memphis, Mo.; W. R. Dierks, Secy.
Mar. 8-9—Iowa State Show and Sale, Des Moines, Iowa; Gerald Parks, Secy., Ames, Iowa.
Mar. 14—Interstate Association's Show and Sale, Sioux City, Iowa; P. K. Pratt, Secy., Walnut, Iowa.
Mar. 19—Mercer County Breeders, Aledo, Ill.; Hugh McWhorter, Secy.
Mar. 21—Wilton Farms, Otto G. Nobiis, Davenport, Iowa.
Mar. 21—Night Sale, Eastern Iowa Assn., Davenport, Iowa; Oliver A. Hansen, Secy., Durant, Iowa.
Mar. 22—"The Jilt Jubilee of 1949," Columbus Jct., Iowa; Forrest M. Larmer, Sale Mgr., Muscatine, Iowa.
Mar. 23—Frank Bradley & Sons, Avon, Ill.
Apr. 19—Warren County Angus Breeders Assn. sale at Indianola, Iowa; Earl F. Lohr, Secy. and Mgr., Earlham, Iowa.
Apr. 23—Central Illinois Breeders, Congerville, Ill.; S. E. Lantz, Secy.
Apr. 25—Marion County Breeders, Knoxville, Iowa; Herbert Cline, Secy., Bussey, Iowa.
Apr. 26—Iowa Southern Angus Sale, at Osceola, Iowa; Richard Bell, Secy. and Mgr., Osceola, Ia.
Apr. 27—Page County Aberdeen Breeders Assn. Sale, at Clarinda, Iowa; Lawrence Varley, Mgr., Shenandoah, Iowa.
May 9—Dr. Frank H. Rose, Albany, Mo., and M. L. McCrea, Maryville, Mo.; sale at Maryville.
May 27—Hoelscher Bros., Arcadia, Iowa; sale at Carroll, Iowa.
May 31—Tallcorn Breeders Assn., Marshalltown, Iowa; C. G. Mason, Secy., Box 243.
June 13—Wayland A. Hopley, Atlantic, Iowa.
June 14—South Central Assn., Oskaloosa, Iowa; Clyde A. Hanna, Secy., Oskaloosa, Iowa.

**HEREFORDS**

Feb. 28—Annual Round-Up Sale, Kansas City, Mo.
Mar. 10—West-Central Iowa Assn., Denison, Iowa; L. S. Curran, Mgr., Floyd, Iowa.
Mar. 12—Southeast Iowa Breeders Assn., Mount Pleasant, Iowa; N. K. Hartley, Secy., Hillsboro, Iowa.
Mar. 18—Adel Hereford Sale, Adel, Iowa; Albert DeWitt, Mgr., Peru, Iowa.
Mar. 19—Marion County Breeders Sale, Knoxville, Iowa; Walter L. Brown, Sale Mgr.
Mar. 21—Sioux City, Iowa; Iowa Hereford Cattle Breeders Assn., F. W. Ketelsen, Secy., Everly, Iowa.
Apr. 4—Clifford Bell, Jr., Pulaski, Iowa; sale at Bloomfield, Iowa.
Apr. 15—Northeast Missouri Assn., Memphis, Mo.; Geo. E. Leslie, Jr., Secy.
Apr. 22—Circle A Hereford Farm, Morris, Ill.

**POLLED HEREFORDS**

Mar. 10—West-Central Iowa Assn., Denison, Iowa; L. S. Curran, Mgr., Floyd, Iowa.

**SHORTHORNS**

Mar. 4—Illinois State Sale, Normal, Ill.; Hal Longley, Mgr., 16 S. Locust, Aurora, Ill.
Mar. 7-8—Interstate Shorthorn Breeders, Sioux City, Iowa; F. E. Jackson, Mgr., Hurley, S. D.
Mar. 14-15—Iowa State Show and Sale, Des Moines, Iowa; Chas. Garden, Mgr., R. 6, Des Moines, Iowa.
Mar. 16—Missouri State Sale, Sedalia, Mo.; Merv. F. Asgerter, Mgr., Seward, Neb.
Mar. 18—Breeders Sale, Abingdon, Ill.; Hal Longley, Mgr., 16 S. Locust, Aurora, Ill.
Mar. 24—Emory Larson (Dispersion), Harlan, Iowa, with draft from Gingery & Burris, Harlan, Iowa, and Herman Leiting, Arcadia, Iowa; sale at Carroll, Iowa.
Mar. 28—Northwest Missouri Breeders, Maryville, Mo.; James Meyer, Sale Mgr.
Mar. 29—Sioux Empire Shorthorn Club, Sioux Falls, S. D.; Al Halverson, Secy., Box 841, Sioux Falls, S. D.
Apr. 4—Southwest Iowa Breeders, Red Oak, Iowa; Malcolm D. Lomas, Secy.

**POLLED SHORTHORNS**

Mar. 14—North Iowa Breeders, Spencer, Iowa; F. S. Girton, Mgr., Marshalltown, Iowa.
Mar. 19—Illinois State Sale, Normal, Ill.; Hal Longley, Mgr., 16 S. Locust, Aurora, Ill.
Apr. 27—South Dakota State Assn. Sale, Sioux Falls, S. D.; Eric H. Thormodsgaard, Sale Mgr., Hudson, S. D.
Mar. 28—Polled Shorthorn Club of Minnesota, Slayton, Minn.; M. H. Bassett, Secy., Rushmore, Minn.

**MILKING SHORTHORNS**

Feb. 25—Shaver and Piesen Herds, New Providence, Iowa; sale at Eldora, Iowa.

**DAIRY CATTLE**

Mar. 21—Iowa State Holstein Assn., Waterloo, Iowa; Dallas V. McGinnis, Secy., 912 Waterloo Blg.
Mar. 26—Mower County Guernsey Breeders, Austin, Minn.; Carl E. Kehret, Mgr.
Apr. 14—Eastern Iowa Holstein Sale, Wellman, Iowa; P. M. Swartzendruber, Mgr.
Apr. 20—Eastern Iowa Guernsey Sale, Wellman, Iowa; P. M. Swartzendruber, Mgr.
Apr. 27—Breeders Sale (Milking Shorthorns), Council Bluffs, Iowa; H. C. McKelvie, Mgr.
Apr. 29—Iowa State Guernsey Breeders, Des Moines, Iowa; C. H. Jennings, Mgr., R. 4, Iowa City, Iowa.
June 1—Breeders Sale (Ayrshires), Council Bluffs, Iowa; H. C. McKelvie, Mgr.

**BERKSHIRES**

Mar. 7—Kermit L. Hougen, Radcliffe, Iowa; sale at Story City, Iowa.

**CHESTER WHITES**

Feb. 19—Albert H. Stuart, Newhall, Iowa.
Feb. 21—Central Iowa Breeders, Des Moines, Iowa; Russell C. McBride, Secy., 2005 School St.
Feb. 21—B. F. Held & Sons, Hinton, Iowa; sale at Sioux City, Iowa.
Feb. 22—Westcott Bros., Denison, Iowa.
Feb. 23—Seth W. Johnson & Son, Kiron, Iowa; sale at Odebolt, Iowa.
Mar. 30—Nick Terpstra & Sons, New Sharon, Ia.

**DUROC JERSEYS**

Feb. 22—Bert Brook & Sons, Sioux Center, Iowa.
Feb. 27—Henry E. Krull, Buffalo Center, Iowa.
Feb. 28—Night Sale (All Breeds), Iowa County Durroc Breeders, Chariton, Iowa; Raymond Airy, Secy., Derby, Iowa.
Mar. 2—Juhl Bros., Luverne, Minn.
Mar. 22—Knotek Bros., Riverside, Iowa, and Harold C. Timm, Muscatine, Iowa.

**HAMPSHIRES**

Feb. 21—Matt Locatis & Sons, Ft. Dodge, Iowa.
Feb. 23—George Lippold & Sons, Avoca, Iowa.
Feb. 25—Albert Larson, Ayrshire, Iowa.
Mar. 2—Lionel Conway, Dakota City, Neb., and W. E. Flippin & Son, Burbank, S. D.; sale at Sioux City, Iowa.
Mar. 5—Field & Christiansen, Nora Springs, Iowa; sale at Osage, Iowa.
Mar. 8—Howard Soorholtz & Son, Melbourne, Iowa; sale at Marshalltown, Iowa.

**SPOTTED POLAND CHINAS**

Feb. 19—E. C. Marty & Sons, Luverne, Iowa.
Feb. 28—A. Lopau & Sons, Pipestone, Minn.; sale at Edgerton, Minn.
Feb. 25—Jack Zimmerman, Earling, Iowa.
Mar. 3—Bert Geerdes & Son, Lakota, Iowa.
Mar. 4—Arthur Bailey & Sons, West Liberty, Ia.
Mar. 5—Bert S. Geerdes & Son, Lakota, Iowa; sale at Buffalo Center, Iowa.
Mar. 11—Homer Wicks, Radcliffe, Iowa.

**YORKSHIRES**

Feb. 21—Hullinger & Roberts, Clinton, Ill.; Box 208, McLean, Ill.
Feb. 26—Valehurst Farm, Peoria, Ill.

**LIVESTOCK FIELDMEN**

M. T. WHITE, 604 No. Fortieth St., Omaha, Nebraska. Phone Walnut 1056.
J. E. HALSEY, 1912 Grand Ave., Des Moines.
M. W. DONEY, Box 740, Storm Lake, Iowa; Phone 970-R.

We publish the FIRST and THIRD Saturday of every month. Copy for livestock advertising must reach our office FIFTEEN days before date of issue.

# Around the Farm AND IN THE Feed Lot

by HOWARD MARSHALL

## In Memoriam

### HOWARD A. MARSHALL

**It is with the greatest sorrow we announce the passing of Howard A. Marshall, president of the Walnut Grove Products Company, whose last column appeared in these pages February 5, after it had been prepared just prior to Mr. Marshall's untimely death January 24.**

We know that a countless host of farmers, stockmen, ranchers, business men and civic leaders join with us in this final tribute to the man who devoted 28 years to the building of Walnut Grove, and who, as its president and general manager since 1936, saw the Walnut Grove Products Company become one of the outstanding mineral companies in the business.

Mr. Marshall's untimely death was the result of a cardiac condition aggravated by years of laborious, unselfish thought and energy directed to his family, friends and company. Memorial services were held in Atlantic Presbyterian Church January 29, with many friends and associates in attendance.

Born in Marshall county, Howard Marshall came to Atlantic as a boy and on graduation from high school went to the University of Michigan and to Grinnell College, where he was outstanding in athletics. Later, he became a professional baseball player, starring with several midwestern and southern leagues.

Going to Anita in 1920 to assist W. E. Kelloway in the organization of Walnut Grove, the late Howard Marshall was elected secretary of the company in 1921, vice-president in 1925, and president in 1936. Under his guidance Walnut Grove grew from a small firm to where it is now one of the outstanding mineral firms in the field, with more than 250 salesmen serving farmers over all of Iowa and in several adjoining states.

From the very outset, Howard Marshall insisted that the quality of Walnut Grove always be the highest and the service to Walnut Grove users always the very best. This policy, along with the integrity inspired throughout the organization by Mr. Marshall's leadership, has resulted in very gratifying farmer acceptance of Walnut Grove.

Moreover, Mr. Marshall's emphasis on quality and service established him as one of the leaders in the nation's mineral feed industry, and found him serving for nine years as treasurer and three years as president of the National Mineral Feed Association.

In addition to his high position in the mineral industry both in Iowa and in the nation, Mr. Marshall was also very active in civic, hospital, and other work, and had extensive farming and livestock interests.

Mortal words are wholly inadequate to express the complete sadness each of us feels for his passing. An indelible imprint of his mind and character will remain upon the life of everyone who knew him, to further serve the good purpose to which his life on earth was dedicated. Our very natural desire to perpetuate that memory and keep it near and dear to us will best be accomplished by our continued dedication to the sound precepts he so often taught. To that we do hereby pledge our efforts to perpetuate that for which he stood.

W. E. Kelloway  C. A. Gillmer
E. A. Kelloway  H. M. Herbert
Howard P. Marshall  Robert Marshall

## Arthur Leonard Dies

Arthur G. Leonard, chairman of the board of the International Live Stock Exposition, and president of the Union Stock Yard and Transit Company, Chicago, died at his home in Chicago on February 4. He was 86 years old.

Mr. Leonard began his association with the Chicago yards in 1899, and was named general manager in 1900. In 1907, he was elected vice-president of the Union Stock Yard and Transit Company, operators of the Chicago yards. Five years later, he was named president, a position he held until his death.

In 1900, Mr. Leonard provided funds and facilities for the first International Live Stock Exposition. Following the stockyards fire of 1934, he was responsible for the erection of the present International Amphitheater.

Previously, he had erected the Pure Bred Live Stock Record Building, home of several breed associations. Other buildings in the stockyards area for which he was directly responsible are the Stock Yard Inn, built in 1912, the Exxchange Building, erected in 1925, and the 4-H Club Building, adjacent to the Amphitheater.

In addition to his positions in the stockyard and International organizations, Mr. Leonard was associated with several industrial, banking and other groups in Chicago.

## Hybrid Pine Trees

Hybrid pines which may mature 30 to 40 years sooner than regular saw-timber pines have been produed by the Institute of Forest Genetics, at Placerville, Calif. Most successful hybrid was the result of crossing Western white pine with Eastern white pine. Seedlings from this cross were, at four and one-half years, twice as tall and three times as heavy as either parent.

**● Excellent educational and descriptive material on these subjects is offered to you by advertisers in this issue. Write direct to the manufacturers whose advertisements appear on these pages for your copy of this information.**


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## SURGE The Machine with the Built-in TUG & PULL!

Teat cups that climb and keep climbing do choke off the flow of milk and slow up milking . . . they do harm the delicate tissues at the top of the teat . . . they do cause some kinds of udder trouble.

This trouble can be almost wholly avoided if you are there to bear down on the claw at the right time and it can be lessened by attaching various weights.

The Surge has a *built-in* TUG & PULL that holds the teat cups down where they belong so that they don't climb upward.

That is one of the big reasons—it is probably the main reason—why more thousands of men switched to the Surge in 1948 than ever before. That's why more of them are making the change every day.

Have you seen a new Surge lately? What has been mighty good for more than twenty-five years is even better in 1949. Ask your Surge Service Dealer to show you one.

# BABSON BROS. CO.

**2843 W. 19th STREET, CHICAGO 23, ILLINOIS**

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